

Members of Parliament are minimally accountable for their issue stances (and they know it)

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For incumbents to be accountable for their issue stances, voters must sanction incumbents whose positions are ‘out of step’ with their own. We test the electoral accountability of British legislators for their stance on Brexit. We find that there is very limited issue accountability. Individuals who disagreed with their representative’s stance on Brexit were three percentage points less likely to vote for them. The aggregate consequences of these individual effects are limited. A one-standard deviation increase in the proportion of constituents agreeing with their incumbent’s Brexit stance is associated with an increase of 0.56 percentage points in incumbent vote share. These effects are ~1.5 times larger when the main challenger has a different Brexit stance to the incumbent. A follow-up survey of Members of Parliament (MPs) shows that MPs’ estimates of the effects of congruence are similar in magnitude. Our findings suggest that issue accountability is conditional in nature and limited in magnitude even for an issue such as Brexit which should be maximally amenable to such effects.

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INTRODUCTION

In June 2016, voters in the United Kingdom (UK) voted to leave the European Union (EU). The surprise outcome ran counter to opinion in parliament: 75% of Members of Parliament (MPs), and 56% and 95% of Conservative and Labour MPs respectively, had campaigned for the UK to remain in the EU. Ten months after the referendum the new Prime Minister, Theresa May, called an early election in which her Conservative Party increased its vote share but lost seats. Some surprising Conservative losses in the 2017 general election occurred in areas that had voted to Remain, but where the incumbent Conservative MP had supported Leave. Defeats in Kensington and Canterbury — seats which had been Conservative since their creation — raised the question of whether Remain voters, regardless of whether they had become *generally* less likely to support the Conservatives, had punished

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Leave-supporting incumbents *in particular* (Chaffin 2017). More generally, the 2017 election raised the issue of whether incumbent MPs were held electorally accountable for their issue stances on Brexit.

The topic of legislators' electoral accountability for their issue stances is common enough in studies of the United States (US) Congress (Canes-Wrone et al. 2002; Ansolabehere and Jones 2010; Nyhan et al. 2012). It has not, however, been a common topic in studies of other countries in general or British politics in particular. Strong party discipline means that most MPs' issue stances are the same as their party's. Even when party discipline does not apply, the views of legislators from the same party are often identical (Norton 2003). What within-party disagreement does exist is usually found on "matters of conscience": issues which parties agree to leave to the individual moral convictions of their MPs, and which are not salient at general elections. Thus, while it is common to find explanations of voting behavior based on holding *parties* accountable for their competence or issue positions (Green and Hobolt 2008), the predominant assumption in British politics has been that although "the elector's support of a candidate may involve a calculus of policy choices. . . it is a calculus to which the parliamentary candidate adds little beyond his adherence to party" (Butler and Stokes 1971, 512). Accordingly, there have been few studies on the accountability of individual MPs for their issue stances (as distinct from valence characteristics). The existing literature on electoral accountability for issue stances is almost entirely based on the experiences of incumbents in the US, a presidential system with weak political parties which might therefore be regarded as a favorable environment for individual rather than party-based electoral accountability.

The post-referendum election, which combines a high salience issue with internal party division, offers an important opportunity to test whether individual MPs are sanctioned when they adopt positions which are "out of step" with their constituents. Our paper uses data from several waves of the British Election Study (BES) (Fieldhouse et al. 2018) to test whether Leave- (Remain-) supporting voters were less likely to vote for Remain- (Leave-) supporting MPs, controlling for respondents' pre-referendum propensity to vote for the incumbent's party and other respondent and constituency characteristics. We are able to show that respondents were aware of incumbents' issue stances on Brexit, and that a small negative effect comes from being "out of step". However we find that the effect of being out of step is greater in contests where the nearest challenger is more "in step". Sanctioning was therefore greater

(but still limited) where Leave-supporting incumbents faced a Remain-supporting challenger, and *vice versa*. We conclude that voters generally have the motive to **sanction** “out of step” incumbents, but that only some voters have the opportunity to **select** better alternatives.

We then compare our findings on the **actual** electoral effects of being out of step with information on **perceptions** of the effects of being out of step. We presented a sample of MPs with vignettes of actual constituency contests and asked MPs to estimate how incumbents in the 2017 election would have performed if they had adopted a more (or less) congruent position. Investigating perceptions of electoral accountability is important because it is *perceptions* that give MPs reasons to act in particular ways, and because MPs may still be incentivized to adopt congruent positions if they believe (falsely) that the effects of being out of step are large. We show, however, that MPs’ beliefs in electoral sanctioning are consistent with the small effects we find in our analysis of the BES data. We interpret this to mean that legislators in the UK know they are only minimally accountable for their issue stances. We conclude by reflecting on the generalizability of our findings to other systems which use single-member districts, and the normative implications of our findings for electoral system choice.

LITERATURE

This article is about accountability. Many things — governments, parties, presidents — can be held accountable, but this article is about the accountability of individual legislators to voters. Voters can hold legislators accountable in different ways, but the most common accountability mechanism is sanctioning an incumbent by not voting for them.

Legislators can be held accountable on different grounds: either because they have done something which everyone regards as bad (or good), in which case we might talk about *valence-based accountability*, or because they have taken a position which is distant from voters’ own position, in which case we talk about *accountability for issue stances*. The latter type of accountability is most easily investigated in single member districts, with legislators’ stances assessed relative to some summary measure of district opinion. Where issue stances are binary rather than continuous, we describe issue stances as being “congruent” or “in step” with constituency opinion if the legislator’s stance is the same as the stance of the majority of their constituents.

Studies have shown that, *generally*, Congressional incumbents with extreme positions do worse than incumbents with moderate positions (Canes-Wrone et al. 2011), and that American voters are more likely to vote for incumbents with whom they agree more (Ansolabehere and Jones 2010). Accountability for *specific* issue stances has been demonstrated across different issue areas: crime (Canes-Wrone et al. 2011), trade (Jacobson 1996) and health-care (Nyhan et al. 2012). This literature has identified *necessary conditions* for accountability for issue stances, and *moderators* of the strength of issue-based sanctioning. For legislators to be held accountable for their issue stances, those stances must be out of step with district opinion, and information about the incumbent's issue stance must be widely available (Nyhan et al. 2012). Sanctioning is moderated by the salience of the issue (Bovitz and Carson 2006), the composition of the electorate (Griffin and Flavin 2007), the importance of the electoral contest (Rogers 2017), and whether the incumbent faces a challenger whose issue stances are more congruent than their own (Hollibaugh et al. 2013). Being out-of-step has substantively meaningful effects in Congressional contests for some important issues, but does not have meaningful effects in elections to state legislatures. Nyhan et al. (2012, p. 859), for example, find that voting for the Affordable Care Act (ACA, generally unpopular when introduced) cost incumbents around eight percentage points. Highton (2019) finds that ACA mattered, but that other issues — like financial regulation and repeal of the “Don’t Ask Don’t Tell” policy — had no substantively significant effects. Rogers (2017, p. 559), in a study of accountability of state legislators, finds that a standard deviation increase in congruence improves incumbents’ vote share by just 0.7 percentage points.

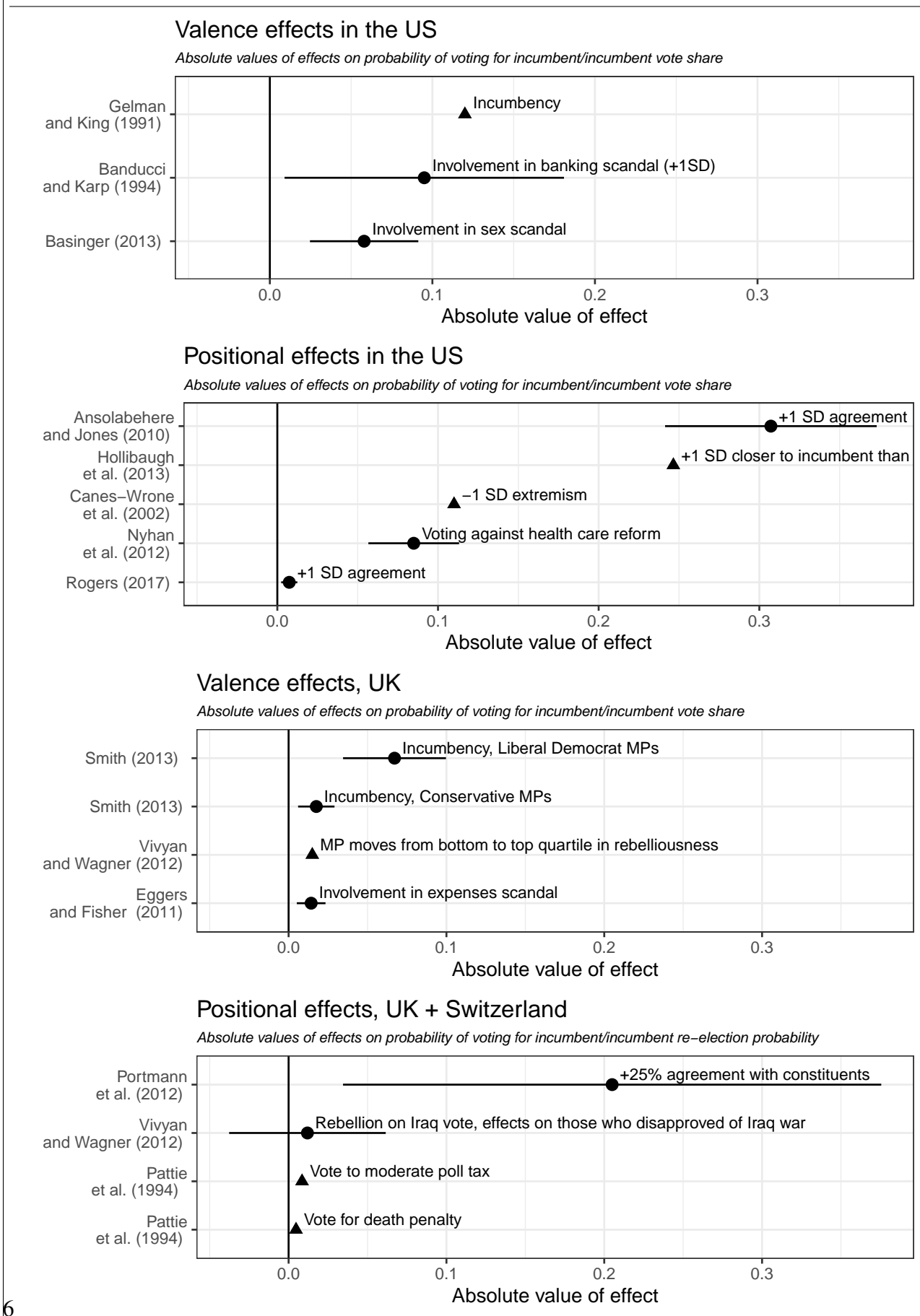
The problem with this literature is that it deals almost exclusively with the US. To our knowledge, only two published papers and a handful of analyses (in appendices to the Nuffield Election Studies) have directly assessed the accountability of individual legislators outside the US for their issue stances. Vivyan and Wagner (2012), in a study of rebelliousness in the UK Labour Party, find that the probability of voting for an incumbent Labour MP was greater among respondents who shared the MP's position on the Iraq War. This effect is both specific to one party (only two Conservative MPs rebelled over Iraq), and imprecisely estimated: the 95% confidence interval on the change in the probability of voting for the incumbent ran from -4 to +6 percentage points, with a point estimate of 1.2 percentage points. Curtice et al. (2005) found (through a simple difference of means) an even smaller effect of rebellion of

0.2 percentage points. Pattie et al. (1994) studied the electoral consequences of several free votes in the 1987-1992 parliament using a factorial ANOVA, and found that MPs who supported two “populist” (and popular) measures — softening the poll tax and restoring the death penalty — gained 0.9 and 0.5 percentage points respectively (no confidence intervals reported). As with Vivyan and Wagner (2012), this analysis is restricted to one party. Unlike Vivyan and Wagner (2012), it only operates as a test of issue accountability under the assumption that these votes were uniformly popular. Analyses of other issues likewise find few effects, concluding variously that “there is no evidence that capital punishment, immigration or any local issue had significant effects” (King and Butler 1966, 263), or (more relevant to our case) that there is no evidence that positions on European Monetary Union had any effect (Butler and Kavanagh 1997, 308).

There is almost no work on *issue-based* sanctioning outside the US, but there has been extensive research on *valence-based* sanctioning in systems with stronger parties, covering not only incumbency (Lee 2008; Smith 2013) and scandals (Banducci and Karp 1994; Basinger 2013; Eggers and Fisher 2011) but also signs of effort (Sulkin et al. 2015), independent-mindedness (Kam 2009, 103-129; Vivyan and Wagner 2012; Campbell et al. 2019), and other positively-valued attributes. This research has identified substantively meaningful effects in both the US and the UK. These are plotted in Figure 1, together with effects from studies of issue-based accountability.

This literature asks whether voters do *in fact* hold incumbents accountable. However, accountability can also be secured if legislators (falsely) believe that they *will* be held accountable. There are reasons to think that MPs may believe just this. In social psychology, the “spotlight effect” (Gilovich et al. 2000) refers to the tendency to over-estimate the salience of our own actions, relative to how they are perceived by others. It is reasonable to believe that politicians (individuals who score highly on measures of narcissism and low on measures of humility: Blais et al. 2019) are also subject to this “egocentric bias”, and believe (falsely) that many of their constituents are aware of, and responsive to, their votes. Like many cognitive biases (Chen et al. 1996), the spotlight effect may be counteracted by the (electoral) incentive to form accurate impressions of voters’ beliefs, but studies of politicians’ beliefs have shown that politicians can hold persistent incorrect beliefs about voters, who they regard as (variously) more conservative than they really are (Broockman and Skovron 2018), more in-line with their own opinion

FIGURE 1. Selected effects of valence- and issue-based accountability. Estimates with no reported confidence intervals are plotted with a triangle.



than they really are, and more like groups they meet regularly (Pereira 2020). To our knowledge, only one paper (Skovron 2018) has directly examined politicians' beliefs about accountability, but it does so by examining politicians' beliefs about antecedent processes such as differential turnout, rather than directly asking politicians about the electoral effects of particular stances. There is therefore a gap in the literature for studies of politicians which directly assess politicians' beliefs about the electoral penalties of issue stances, in a way which minimizes politicians' desire to present their own actions as consequential.

CONTEXT

We assume a working knowledge of the 2016 Brexit referendum and the 2017 general election (an overview is provided in Cowley and Kavanagh (2018)). Instead of providing a chronological overview, we identify six basic facts about the referendum and the election which make it appropriate to study issue accountability in this context.

First, MPs adopted positions on the referendum that were widely reported. The informal referendum campaign began on February 19 2016 when then-Prime Minister David Cameron returned from a European Council with “a new settlement” for the UK within the EU.¹ Within a week, 85% of MPs had “declared” for either Leave or Remain, either through individual statements or through the two campaign organizations, Vote Leave and Britain Stronger in Europe. The positions of individual MPs were reported on the BBC website, and in the national and local press.² Although this does not guarantee that constituents were aware of MPs' positions, it does show that this information was widely available. One necessary condition for issue accountability — “the dissemination of information about the [issue stance] itself” (Nyhan et al. 2012, 849) — is therefore met.

Second, MPs' positions revealed significant within-party division in the two largest parties. While

¹“European Council meeting – Conclusions”, available at <https://www.consilium.europa.eu/media/21787/0216-euco-conclusions.pdf>

²See <https://www.bbc.co.uk/news/uk-politics-eu-referendum-35616946>, <https://www.mirror.co.uk/news/uk-news/how-mp-vote-eu-referendum-9187679> or BT <http://home.bt.com/news/uk-news/how-mps-voted-in-the-eu-referendum-11364110245462>.

the smaller parties either uniformly supported leaving the EU (UK Independence Party, UKIP) or opposed it (Liberal Democrats, Scottish National Party, Plaid Cymru, The Green Party), Labour and Conservative parliamentarians campaigned for both sides. While a majority (56%) of Conservative MPs — including David Cameron — campaigned for Remain, the Conservative party as an organization was formally neutral in the referendum (Shipman 2016, 88). Labour's position was less equivocal, but enough Labour MPs campaigned for Leave (10 of 228) to test of whether these MPs benefited from their position. This within-party division is a further necessary condition for identifying *individual* issue accountability: if there is no within-party division, it is impossible to distinguish the effects of an individual MPs' position from the effects of their party affiliation. For this reason, we can only study the individual issue accountability of Labour and Conservative MPs, since these were the only parties which were divided on the issue of Brexit.

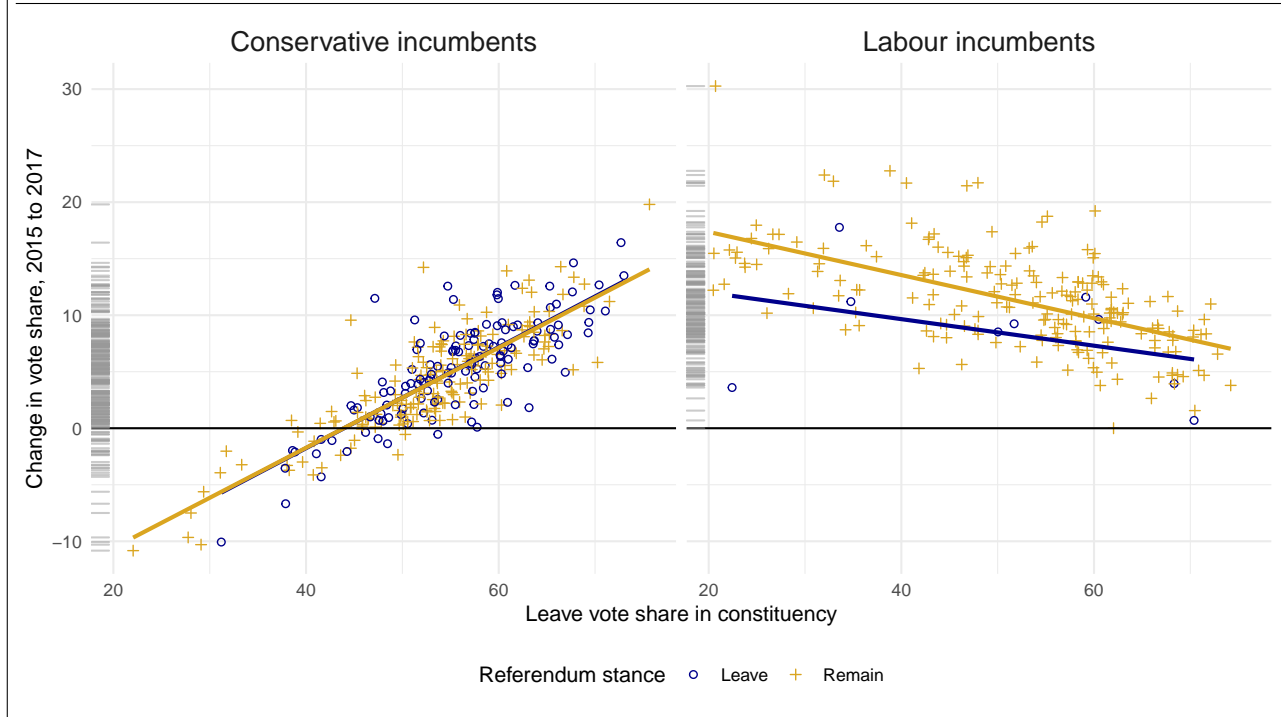
Third, because of the result, many MPs were revealed to have adopted out of step positions. This was particularly true for Labour MPs. Because the referendum was counted in local authority areas, rather than Westminster constituencies, there are no official records of how each constituency voted, but estimates (Hanretty 2017) suggest that around half of MPs were out of step with their constituents on Brexit. This figure was higher for Labour MPs (around 60%) and Remain-supporting MPs (58%) than it was for Conservative MPs (46%) and Leave-supporting MPs (21%).³ Although Conservative MPs were more in step with their constituents, the degree of congruence for both parties was low.

Fourth, the subsequent 2017 election was about Brexit, both in its inception and in how voters approached it. The next general election after 2015 would ordinarily have taken place in 2020, but Theresa May — Cameron's replacement as Prime Minister — decided to initiate an early election. Her rationale for doing so was that other parties in Parliament were "[jeopardizing] the work we must do to prepare for Brexit at home and. . . [weakening] the government's negotiating position in Europe."⁴ Although they might not have accepted this analysis, voters agreed that Brexit was the most important issue in the election: 36% of respondents to the post-election BES face-to-face survey cited Brexit or

³These figures are based on MPs who declared a position prior to the referendum. They exclude a number of parliamentary office-holders (Speakers and Deputy Speakers) as well as MPs who did not declare a position.

⁴"Theresa May's general election statement in full", *BBC News Online*, <https://www.bbc.co.uk/news/uk-politics-39630009>

FIGURE 2. Change in incumbent vote shares as a function of Leave vote share in each constituency, plotted separately by party, for 514 Labour or Conservative MPs with a declared position before the 2016 referendum and who stood again in 2017



Europe as the most important issue facing the country, much higher than the percentage that identified health or the National Health Service (NHS) (11%); terrorism (6%); or the economy (10%).⁵ This is extremely unusual for an “episodic” issue like Brexit.⁶ The issue of Brexit was therefore highly significant.

Fifth, there were significant links between the Leave share in each constituency and parties’ shares

⁵These percentages are based on regular expression matching the free-text entries reported in the British Election Study face-to-face survey. The case-insensitive search terms were “Brexit|Europ|<EU>”, “health|NHS”, “terror|isis”, and “econ|job|wage|employ” respectively.

⁶An examination of other episodic issues in British political history shows that although the poll tax was for a brief point (February to June 1990) the most important issue in British politics, but it had ceased to be the most important issue by the time of the 1992 election: on this, see <https://www.ipsos.com/ipsos-mori/en-uk/important-issues-facing-britain>. War in Iraq was, under the heading of national defence, the most important issue in February and March of 2003, but by the 2005 election it had become the fifth most important issue after immigration, crime, health and the economy (Johns 2010, 149). Covid-19 has since become another unusual “episodic” issue.

of the vote. Figure 2 shows changes in the vote shares of Conservative (left panel) and Labour (right panel) incumbents as a function of the Leave share in each constituency, with separate symbols and trend lines for MPs who campaigned for Remain and for Leave. Conservative incumbents increased their vote share more in constituencies which had voted more heavily to Leave. The pattern for Labour was the reverse. Analysis of individual-level evidence also shows significant switching according to Brexit position (Mellon et al. 2018). If the issue of Brexit was salient enough to have affected *party* vote shares, it is plausible that it was salient enough to have affected individual *candidates'* vote shares.

Sixth, the UK is a case where it makes most sense to study issue accountability. It is in single-member districts where the idea of legislators' individual electoral accountability for issue stances is most easily understood. Dyadic representation — the degree to which legislators' policy positions reflect their constituents' policy preferences — is premised on a simple relationship between a legislator and their constituency, understood as a single principal. Where district magnitude is greater than one, it may not make sense to conceptualize the constituency as a single principal, but rather as multiple principals defined by party identification, or possibly some other characteristic (Golder and Stramski 2010). Given the difficulties inherent in specifying these groups, testing the electoral accountability of legislators for their issue stances becomes very difficult outside the set of countries which use single-member districts, and in which we can talk of a one-to-one congruence relationship. Since rates of legislative unity in these democracies (principally the UK, the US, Canada, Australia, France, and India) are — with the exception of the US — generally high (Depauw and Martin 2009; Kam 2009, p. 8), it is important to use occasions where there is within-party disagreement to test for the impact of individual legislators' stances, as we do here.

THE UNCONDITIONAL EFFECTS OF CONGRUENCE

The data for this analysis come from the 2014-2021 BES Internet Panel. There have been twenty waves of the panel; the first wave took place in February-March 2014, and the most recent in June 2020. We rely most heavily on data from waves seven (April-May 2016, before the referendum), and thirteen (June 2017, after the general election). We also use pre-election waves eleven and twelve for data concerning perceptions of MPs' stances on Brexit. We augment data from the BES with information

on MPs' pre-referendum issue stances (taken from the BBC), and information on the characteristics of the different constituencies (taken from several different sources). The multiple waves of the BES allow us to control for characteristics of respondents measured before their MP had adopted a position on the referendum. Our analysis is restricted to participants in the post-election wave who said whether and how they voted, and who could be associated with a constituency. We imputed missing survey data using *Amelia* (Honaker et al. 2011).

The **scope** of our analysis is restricted to respondents from constituencies represented by a Conservative or Labour incumbent who was in office at the start of the referendum campaign, and who stood for re-election. We restrict our analysis to Conservative and Labour incumbents because these are the only parties which were internally divided on Brexit, and for whom we can distinguish between individual and party effects. We restrict our analysis to incumbents who were in office at the start of the referendum campaign because it is not clear whether information on the issue stances of the seven Labour or Conservative MPs who took office after the beginning of the campaign⁷ was widely publicized. Finally, we restrict our analysis to MPs seeking re-election.⁸ We are left with information from 25,189 respondents. Of these, 46% voted Leave in the referendum, 44% Remain, and 9% did not vote.

The **dependent variable** in our analysis is whether the respondent voted for the incumbent. We create two versions of this variable. One version has a value of one where the respondent voted for the incumbent, and a value of zero in all other cases, including both cases where the respondent voted for a challenger and cases where the respondent did not vote at all (mean = 0.45). The other version excludes cases where the respondent did not vote (mean = 0.51). Because it is more closely connected to the size of MPs' majorities, we privilege estimates based on analyses excluding nonvoters, but our substantive conclusions do not depend on which version of the dependent variable we use.

The **independent variable** in our analysis is whether the respondent's MP adopted the same position on Brexit as the respondent. This variable has a value of one where the respondent and MP

⁷Rosena Allin-Khan, Robert Courts, Sarah Caroline Johnson, Gareth Snell, Trudy Harrison, Tracy Brabin and Gill Furniss.

⁸In table S12 we show that there is no significant association between congruence and retirement decisions when controlling for age. This is different from cases of scandal (Eggers and Fisher 2011).

both supported Leave or both supported Remain, and a value of zero in all other cases, including cases where either the MP or the respondent adopted no position or did not vote (mean = 0.46).

The **control variables** in our analysis are of three kinds: control variables required because of the nature of the independent variable; control variables required because of the potential for constituency characteristics to confound a relationship between congruence and outcomes, and control variables which it is desirable to include to increase the efficiency of our estimates and guard against the possibility of non-random sample selection.

The first set of control variables includes controls for the incumbent's referendum position and the respondent's referendum vote. These control variables are implied by how our key independent variable is constructed. Because the value of congruence depends on the values of two other terms, it functions like an interaction term. When models use interaction terms, it is necessary also to include the constituent terms of the interaction: failure to include constituent terms usually leads to biased estimates (Brambor et al. 2005). Bias might otherwise arise if Leave-supporting MPs generally did better than Remain-supporting MPs, across all classes of voter, or if Leave-supporting respondents were generally less likely to support incumbents, across all classes of incumbents.

The second set of control variables includes constituency-level variables which might affect both the likelihood that the MP adopts a particular position and their vote share. The prior strength of UKIP is just such a confound. MPs faced with a strong challenge from UKIP adopted more Euroskeptic positions to deter future UKIP challenges and retain Euroskeptic voters (Heppell et al. 2017, 769). Prior UKIP strength was also positively associated with changes in incumbent vote shares because the party collapsed after the EU referendum had been won.

It is never possible to identify all such confounding variables. We base our selection of control variables on work which has modeled aggregate level outcomes at the 2017 election (Heath and Goodwin 2017, 355), work which has looked at the medium-term economic causes of Brexit (Colantone and Stanig 2018), and general work on incumbents' fortunes (Smith 2013; Martin 2016). From the 2011 census (following Heath and Goodwin (2017)) we take information on the proportion of the constituency population aged 18-29; the proportion with a university degree; the proportion of ethnic minority residents; and the proportion of unemployed residents. From Colantone and Stanig (2018) we

take information on exposure to Chinese import shocks, but remapped to Westminster constituencies. We also include information on the incumbent's tenure (one, two or more terms); whether the incumbent was in the (shadow) cabinet; and the 2015 share of the vote for the Conservatives, Labour and UKIP. Finally, we include pre-referendum estimates of constituency-level support for exiting the EU. These estimates were produced using multilevel regression and post-stratification using opinion poll data gathered between 2010 and 2014 (Hanretty et al. 2018).⁹

We do not include as constituency-level controls whether UKIP or The Green Party fielded candidates in each seat. These decisions were made after incumbents had adopted their referendum positions. These variables are therefore “post-treatment” variables: their inclusion in a regression would mean that we would not — even in principle — be estimating the total causal effect of MPs' issue positions on their vote share.

The third set of controls are controls for individuals' characteristics. Strictly speaking, we do not need to control for individual level measures to recover the causal effect of congruence, because there is no causal pathway from “characteristics of particular respondents” to “MPs' decisions”. However, the inclusion of additional controls can increase the precision of our estimates, and allows for the possibility that the sample is not a random sample of the population. For that reason, we include the respondent's propensity to vote (PTV) for the main UK-wide parties (Conservatives, Labour, Liberal Democrats, UKIP, and The Green Party). These PTV variables were measured in the seventh BES wave, completed before the referendum (fieldwork dates: April 12-May 4 2016). The PTV variables offer a fine-grained characterization of the respondent's political propensities.

To recover the effects of MPs' stances, we estimate a multilevel logistic regression model using different sets of these covariates. We use a multilevel model because respondents are clustered into constituencies. We use a logistic regression model because our outcome is dichotomous. We use a regression model rather than matching because even after coarsening (Iacus et al. 2012) the number of matches is very much smaller than the number of units available for the regression, reducing the efficiency of our estimates.

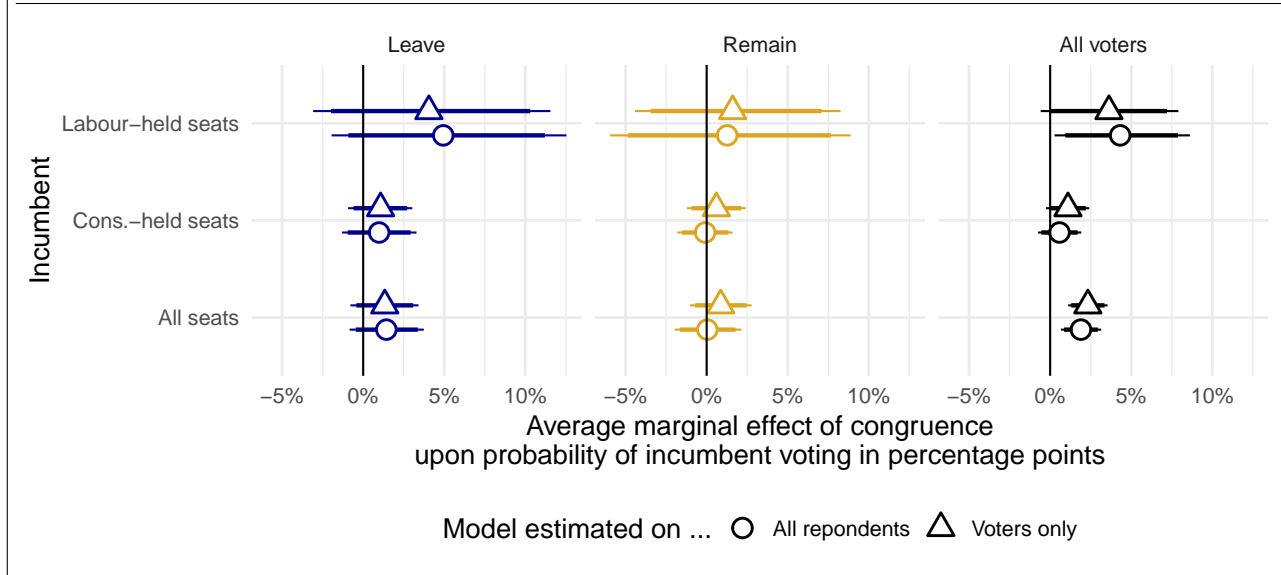
⁹We use pre-referendum campaign estimates rather than post-referendum estimates because the referendum outcome in each area might have been influenced by MPs' positions, and may therefore be post-treatment.

Formally, our model is as follows: the probability of individual i in constituency j voting for the incumbent ($y_{ij} = 1$) is a function of a global intercept (α), constituency-specific random intercepts (μ_j), MP position, respondent position, congruence, constituency covariates gathered in \mathbf{X}_j , individual covariates gathered in \mathbf{Z}_i , and an indicator variable which has value one if the incumbent was a Labour incumbent. Specifically,

$$\begin{aligned}
 \text{logit}(Pr(y_{ij} = 1)) = & \alpha + \mu_j + \\
 & \beta_1 \cdot \text{MP supported Remain}_j + \\
 & \beta_2 \cdot \text{MP undeclared}_j + \\
 & \beta_3 \cdot \text{R supported Leave in 2016}_i + \\
 & \beta_4 \cdot \text{R did not vote in 2016}_i + \\
 & \beta_5 \cdot \text{R and MP congruent}_{ij} + \\
 & X_j \beta_{6..28} + \\
 & Z_i \beta_{29..51} + \\
 & X_j \beta_{52..57} \cdot \text{Labour incumbent}_j + \\
 & Z_i \beta_{58..63} \cdot \text{Labour incumbent}_j + \\
 & X_j \beta_{64..86} \cdot \text{R supported Leave}_i + \\
 & Z_i \beta_{87..92} \cdot \text{R supported Leave}_i + \\
 & X_j \beta_{93..115} \cdot \text{R did not vote in 2016}_i + \\
 & Z_i \beta_{116..121} \cdot \text{R did not vote in 2016}_i
 \end{aligned} \tag{1}$$

This specification allows for Labour incumbents to do better in certain types of constituencies but not others, and among certain types of voters but not others. It also allows for the link between respondent and constituency characteristics to vary according to 2016 referendum behavior. This is necessary: the link between propensity to vote Conservative ought to be positive for Conservative incumbents and negative for Labour incumbents. The same is true, less obviously, for constituency characteristics.

FIGURE 3. AMEs from a model of unconditional issue accountability, with separate estimates by voter type and seat type. Thin bars show 95% credible intervals; thick bars 90% credible intervals. Estimates derive from tables S2 - S4.



By subsetting the data and removing interaction terms, the model can be estimated on Leave or Remain voters only, or on respondents in Labour- or Conservative-held seats only, or on some combination of the two. When subsetting to Remain voters, we report the effect of “MP supported Remain”, rather than “R and MP congruent” (which we drop). When subsetting to Leave voters, we use “MP supported Leave” instead of “MP supported Remain”. In all other cases, we report the effect of “R and MP congruent”.

Given the large number of coefficients in each model and the difficulties of comparing logistic regression coefficients estimated across different data subsets (Breen et al. 2018), we present average marginal effects (AMEs) of the relevant variables. Figure 3 shows AMEs for different combinations of incumbent party, voter type, and dependent variable. Estimates plotted with a circle show the results from a model estimated on all respondents; estimates plotted with a triangle show the results from a model estimated on 2017 voters only. The figure shows that the effects of congruence on the probability that an individual respondent will vote for the incumbent range from 0.25 percentage points (the effect of congruence on Remain-voting respondents in Conservative-held seats) to 6 percentage points (the effect on Remain voters in Conservative-held seats). Our best estimate of a single, unconditional congruence effect on voters is 2.5 percentage points (95% CI: 1.3-3.66 percentage points).

These are individual effects. The aggregate consequences of these individual effects are necessarily smaller, since any increases in aggregate vote share which result from changing an MP's position to match Leavers (for example) are partially cancelled out by losses among Remainers. The size of the aggregate consequences will therefore depend on the imbalance in constituency opinion. If we measure *constituency-level* congruence as the proportion of the constituency that supports the MP's position, then the standard deviation of this constituency-level measure is 11.3 percentage points. A one-standard deviation increase in congruence would occur if a Remain- supporting MP switched to Leave in a constituency where $(50 + 11.3/2 =) 55.7\%$ of citizens voted Leave. On the basis of a single pooled congruence effect, then the aggregate consequences of such a switch would be around 0.56 percentage points (95% CI: 0.30, 0.83).¹⁰

Are effect sizes of 2.5 percentage points at the individual level or 0.56 percentage points at the aggregate level large or small? We draw four comparisons. First, the effects are small relative to the effects of other covariates: the coefficient on congruence is one-tenth the size of the coefficient on propensity to vote. Second, the effects are small relative to benchmarks for the minimal important distance: 0.56% is less than the the “fourth percentile of margin of victory” threshold used by Fortunato and Monroe (2018) (2% in the case of the US House; 0.8 percent in the UK). Third, the effects are also small relative to the effects of congruence in the US House on important issues: Nyhan et al. (2012)'s estimates of the effects of voting against the (then generally unpopular) Affordable Care Act are thirteen times larger. The effects *are* comparable to the effects of roll-call congruence in US *state* legislatures given a similar one standard deviation shift (Rogers 2017). Finally, the aggregate consequences are substantially smaller than the estimated effect of being implicated in the 2007 parliamentary expenses

¹⁰Let L be the proportion of Leavers in a constituency, and R the proportion of Remainers. Then, if b is the baseline probability of supporting some candidate, and δ is the change in probability associated with congruence, then the vote share when the MP supports Leave (Y_L) is equal to $Y_L = (b + \delta)L + (b - \delta)R$, whereas the vote share if the MP supports Remain (Y_R) is equal to $Y_R = (b - \delta)L + (b + \delta)R$. The difference in vote share associated with a switch from Remain to Leave is therefore $(b + \delta)L + (b - \delta)R - (b - \delta)L - (b + \delta)R$, which simplifies to $2\delta L - 2\delta R$. If we substitute in values from the worked example above, where 55.7% of the MP's constituents favoured Leave, and she switched from Remain to Leave, then we can solve $x = 2 \cdot 0.025 \cdot 0.557 - 2 \cdot 0.025 \cdot (1 - 0.557)$ to find that $x = 0.0057$. This calculation ignores variation in constituency sizes and turnout.

scandal (Eggers and Fisher 2011). This illustrates well the potential differences in the magnitudes of valence effects (which operate on all voters) and congruence effects (which operate only on the congruent).

THE CONDITIONAL EFFECTS OF CONGRUENCE

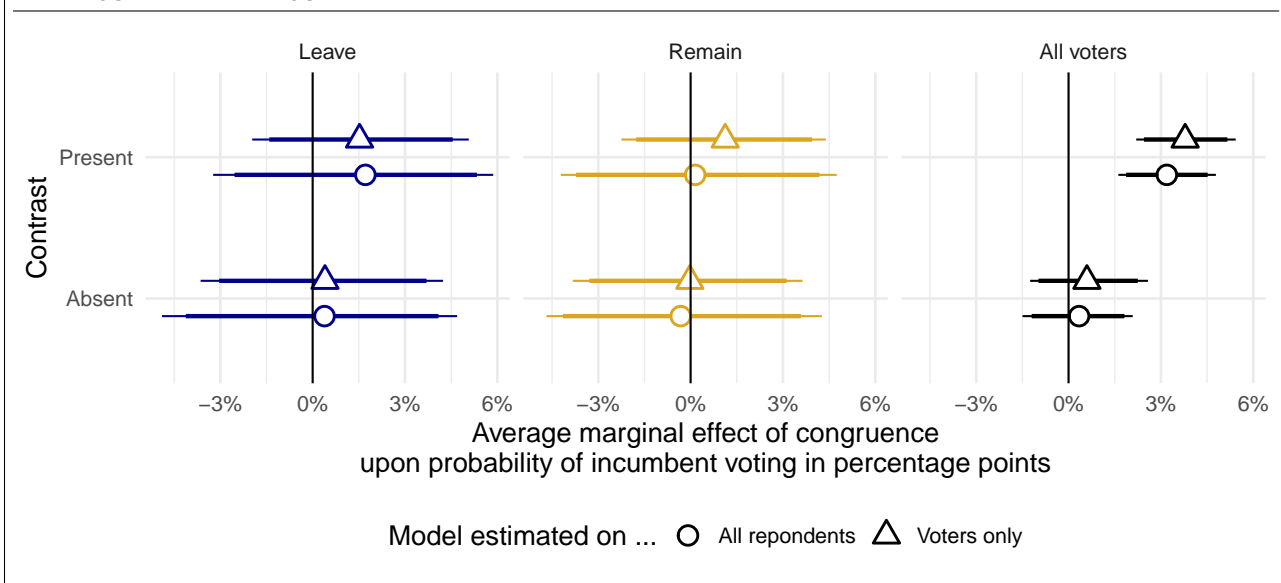
The previous section estimated the effect of the incumbent's position on Brexit matching the respondent's own position on the probability of the respondent voting for an incumbent. The effect we estimated was unconditional: whether the incumbent's position was congruent was an equally strong reason for (not) voting for the incumbent across all different contexts. There are, however, good reasons to think that the effect of being out of step varies across different electoral contexts. In particular, voters may be more likely to vote against an out of step incumbent if there is a relevant challenger who is more "in step" than the incumbent. Remain voters may be more likely to vote against a Leave-supporting MP if there is a relevant challenger who supports Remain, but not if the nearest challenger also supports Leave.

Hollibaugh et al. (2013) demonstrated this kind of conditional accountability in Congressional elections. They argued that the best model of incumbent support is based not on the distance between the respondent and the incumbent, but on how much closer the incumbent is to the respondent than the challenger. This means that holding an incumbent to account can also involve selecting a better replacement, and that the unconditional effects estimated in the previous section may underestimate the effects of issue stances in certain types of contest.

To test conditional issue accountability, we collected information on the pre-referendum positions of the parliamentary candidates selected by the second-placed party in 2015 ("challengers"). Challengers were drawn from several different parties, but predominantly from Labour (198 candidates), the Conservative Party (155) and UKIP (105).¹¹ We began by examining candidates' social media activity prior to the referendum. Where candidates had made clear statements in favour of Leave or Remain, we

¹¹Although UKIP were the best-placed challengers on the basis of the 2015 results, the party suffered a collapse in support following the Brexit referendum. Absent constituency polling capable of indicating the second-placed party prior to the 2017 election, we see no principled alternative to taking the positions of the UKIP candidates where the party placed second in 2015.

FIGURE 4. AMEs from a model of conditional issue accountability, with separate estimates by voter type and seat type. These estimates derive from table S5.



coded their position accordingly. We contacted (by email) candidates who made no clear statement or had no social media profile. We were able to identify referendum positions for 336 of 524 challengers. Only in the Conservative party was there within-party variation, with a majority of Conservative challengers (67 of 87 with identifiable positions) favoring Leave. All remaining parties' challengers all supported either Remaining (Labour, Liberal Democrats, Scottish National Party and Plaid Cymru) or Leaving (UKIP).

Using the information on challenger positions we distinguish between two types of constituency contests: contests where the challenger had a different position (the incumbent supported Leave and the challenger Remain, or *vice versa*), and contests where the challenger and incumbent had the same position.

We therefore re-estimate the model described in the previous section, adding an interaction between the type of contest and the measure of congruence. Because this model has the character of a three-way interaction (respondent position \times incumbent position \times type of contest), we once again eschew tables of coefficients and present the AMEs of congruence evaluated in no-contrast and contrasting contests. These are shown in Figure 4. As before, we give estimates from models estimated on Leave voters, Remain voters, and all respondents, and according to whether the respondent voted in 2017.

The effects of congruence in contests where the nearest challenger has the same position on Brexit

are all very close to zero, and one has the wrong sign. The effects of congruence in contests where the nearest challenger has a different position are larger, but are only significantly different from zero when we pool together both Leave and Remain voters. In these models, the effect of congruence is around four percent — regardless of whether we include non-voters in the sample — and is relatively precisely estimated. This is more than one and a half times the size of the unconditional effect. At the aggregate level, a standard deviation change in congruence would yield an increase in vote share of 0.95 [95% CI: 0.59 to 1.33].¹²

A model interacting congruence with the type of contest was suggested by theory and delivers very different AMEs. This more complicated model also fits the data better: the value of the leave-one-out criterion (LOOIC) is lower (better) for the conditional model than for the unconditional model (19,235.5 to 19,241.3, with a standard error on the difference of 3.4 units).

These results are not the result of other constituency characteristics associated with both contrasting incumbent/challenger positions and the strength of incumbent sanctioning. Previous research has argued that dyadic representation should be stronger in more educated areas and more marginal seats (Lloren and Wüest 2016; Griffin 2006). Yet areas where the nearest challenger had a different stance on Brexit tended to have lower levels of education (15.6% of the population have a university degree, compared to 18.0% in seats without contrast), and higher majorities (average majority of 25.9 percentage points compared to 24.0 percentage points in non-contrasting races), which suggests that these constituency characteristics cannot account for the stronger effect we see. Races where the nearest challenger had a different position on Brexit did have higher UKIP performance in the past (average vote share of 14.9 percentage points compared to 13.4), but we do not see this as a rival interpretation: UKIP provided some of the contrast we see.

Using these conditional effects, we can work out the implications of congruence for the 2017 election. Thirty-seven of the 524 MPs considered here lost their seat in the election. Of these, sixteen were also out of step with their constituency. Seven of these sixteen MPs, because they faced a challenger who had a contrasting position, could reliably have improved their vote share by switching. In four cases, the increase in vote share might plausibly have exceeded the challenger's margin of victory.

¹²This calculation uses the effect on voters (rather than all respondents) and the algebra in footnote 10.

In Kensington (69% Remain), Victoria Borwick would have gained just over three percentage points by switching from Leave to Remain — greater than the very small majority her Labour challenger won (0.05%). In Canterbury (55% Remain), Julian Brazier would have won 0.8 percentage points, again greater than the majority of his Labour challenger (0.33%). Had these two Conservative MPs switched, the Conservative party would still have lost its majority, but would have been less reliant on legislative support from the Democratic Unionist Party. Conversely, two Labour MPs could have retained their seats had they switched. Rob Flello, MP for Stoke-on-Trent South (71% Leave) could have secured 3.5 percentage points more by switching, exceeding his (Conservative) opponent's majority of 1.6 percentage points. Alan Meale (Mansfield, 71% Leave) could also have beaten Conservative candidate Ben Bradley with a similarly sized swing.

OBJECTIONS AND LIMITATIONS

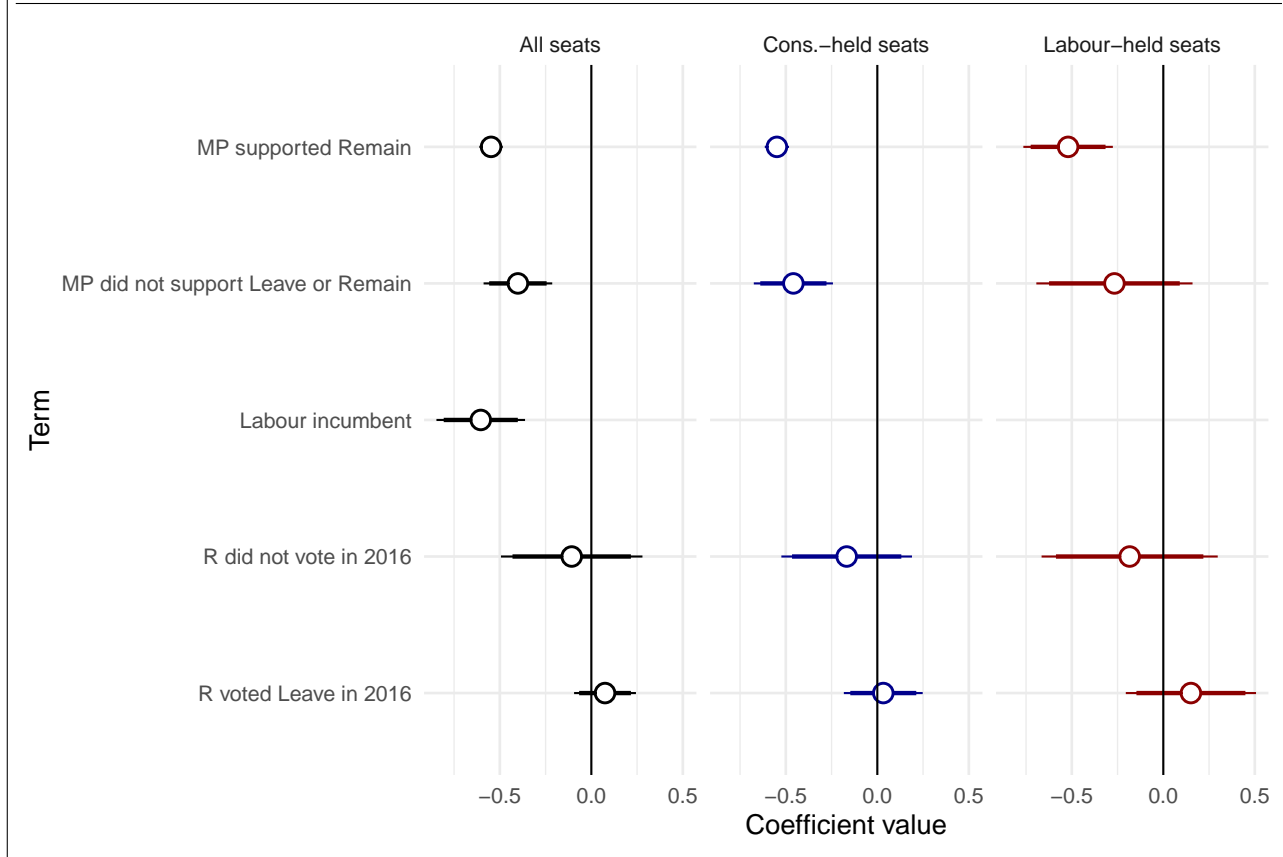
In presenting earlier versions of this work, we encountered two objections, both of which concern the causal pathway between MPs' stances and respondents' votes. The first objection runs as follows: for MPs to be held accountable, voters have to know how MPs campaigned during the referendum. However, past research has shown that only a small minority of people know the name of their own MP (Hansard Society 2013; cf. Cowley 2014). It is therefore implausible that any incumbent sanctioning should exist given widespread ignorance.

We respond to this objection by showing that there was an association between MPs' stances and survey respondents' perceptions of their MP's stance. Waves eleven and twelve of the BES (pre-election waves fielded between April and June 2017) asked respondents about their perceptions of their local MP's stance on Brexit, on a scale from 1 to 5, where 1 means the MP "strongly opposes" Brexit and 5 means the MP "strongly supports" Brexit (mean of 3.14; SD = 1.3). We model respondent perceptions using the same formula as in equation (1),¹³ except that we drop the "R and MP congruent" term. For ease of interpretation, we use a multilevel *linear* model, despite the discrete character of the responses.

Because our model is a linear model, we plot model coefficients rather than AMEs. We focus on the effects of MP position (our key independent variable) as well as two important control variables:

¹³We use the same formula, despite the different outcome variable, to reduce researcher degrees of freedom.

FIGURE 5. Selected coefficients from a model of perceptions of MPs' Brexit stances. Negative coefficients indicate greater perceived opposition to Brexit. Full regression models are reported in Table S6



the incumbent's party (since respondents may project party positions onto MPs) and the respondent's own position (since respondents may project their own position on to incumbents: Wilson and Gronke (2000)). The values of these coefficients are shown in Figure 5 for models estimated separately on respondents in Conservative-held seats, Labour-held seats, and all seats.

The strongest association with perceived Brexit stance is party: Labour incumbents are perceived as much more hostile to Brexit than Conservative incumbents (the reference category). However, this association is only very slightly stronger than the association with MPs' actual issue stance. On a 1-5 scale, MPs who campaigned for Remain are 0.6 points (0.48 standard deviations) more hostile to Brexit. MPs who adopted no position are more likely to be perceived as hostile to Brexit than MPs who campaigned for Leave. Surprisingly, voters do not project their own views onto their incumbent.

The fact that there is a substantively meaningful and statistically significant association between MPs' actual positions and how those positions were perceived does not mean voters were well-informed,

in some absolute sense, about MPs' positions. Just over half of respondents (52%) gave the correct answer (scores of 4 or 5 for MPs who had campaigned for Leave; scores of 1 or 2 for MPs who had campaigned for Remain; scores of 3 for MPs who were undeclared). These findings do, however, allow us to show that the incumbent sanctioning we have identified can operate through changed perceptions on the part of voters. When we model incumbent voting using perceived congruence rather than actual congruence, we obtain standardized effect sizes that are twice as large (tables S7 - S9; figure S1). Had voters had perfect knowledge of MPs' positions, issue accountability would have been greater.

The second common objection is, in some ways, the opposite of the first, since it is premised on voters knowing about MPs' positions on the issue of Europe not only currently, but also in previous elections. It runs as follows: our regression models do not recover the causal effects of MPs choosing a position in the referendum, since some MPs (like John Redwood, Bill Cash or Andrew Rosindell) were always going to campaign to leave the EU. It is reasonable to believe voters had already taken these pre-existing positions into account. By failing to control for prior Euroskepticism, our models underestimate the effects of positions on Brexit specifically.

We are able to respond to this objection by using a measure of prior Euroskepticism for a limited set of Conservative MPs. Heppell (2013) assigned all Conservative MPs in the 2010-15 parliament to one of four categories in relation to Europe. Of the 238 MPs who sat in the 2010-15 parliament and are also considered here, five were described as "europhile"; 51 as "agnostic", 130 as "soft euroskeptic", and 66 as "hard euroskeptic".

Because these ratings are only available for a subset of Conservative MPs, using them in models of incumbent voting or perceptions of MP stance results in a decrease in sample size. We estimated models of incumbent voting on all 11,857 respondents in seats held by Conservatives for whom Heppell (2013) had assigned a rating, both including and omitting these ratings. We interacted these ratings with the respondent's own vote in the referendum. The inclusion of these additional terms does not change the effect of congruence: the posterior probability that congruence is smaller in the model with ratings is just 58% (see Table S10). Nor are perceptions of MPs' attitudes toward Brexit significantly associated with these ratings (Table S11). Our conclusions are therefore unchanged by the inclusion of measures of prior Euroskepticism.

MPS' PERCEPTIONS OF ELECTORAL ACCOUNTABILITY FOR ISSUE STANCES

Scholars of representation understand that legislators' actions must be explained with reference to legislators' beliefs and preferences, and that legislators' beliefs can be more or less accurate (Miller and Stokes 1963, 50-51; Mansbridge 2003, 517). We have shown that constituents don't (meaningfully) sanction legislators with noncongruent issue positions, but do MPs know this? If MPs instead believe that constituents respond to their issue positions by sanctioning, then there are still perceived incentives for MPs to act in line with constituency preferences. Those incentives might be fragile, and the belief in meaningful accountability for issue stances would be a sort of noble myth, but we would nonetheless be able to explain observed levels of dyadic representation (Hanretty et al. 2017) by referring to legislators' beliefs about constituency opinion and their preference for re-election.

We therefore surveyed MPs to elicit beliefs about the electoral penalty of being out of step with one's constituents. Specifically, we presented MPs with a series of six vignettes which gave details on an incumbent MP, their position in the referendum campaign (Leave or Remain), the position of their principal challenger, and asked MPs to estimate the vote share the incumbent would have won if they had campaigned for Remain instead of Leave (or vice versa). We supplied MPs with information on the incumbent's actual vote share in the 2017 election, and estimates of Leave/Remain support in each incumbent's constituency. One of the vignettes used is shown in Box 1; the full survey wording is reported in the Appendix.

Box 1: An estimated 62% of voters in Reading East voted to Remain in the 2016 referendum.

The sitting MP, Rob Wilson (Con.), campaigned for Remain in that referendum.

His main opponent, Matt Rodda (Lab.), supported Remain.

In the 2017 general election, Wilson won over 23,000 votes, or 42.3%, compared to Rodda who won 49%.

Now suppose that Wilson had campaigned for Leave instead.

How many votes would Wilson have won had he switched to support Leave? Please give your answer as a percentage.

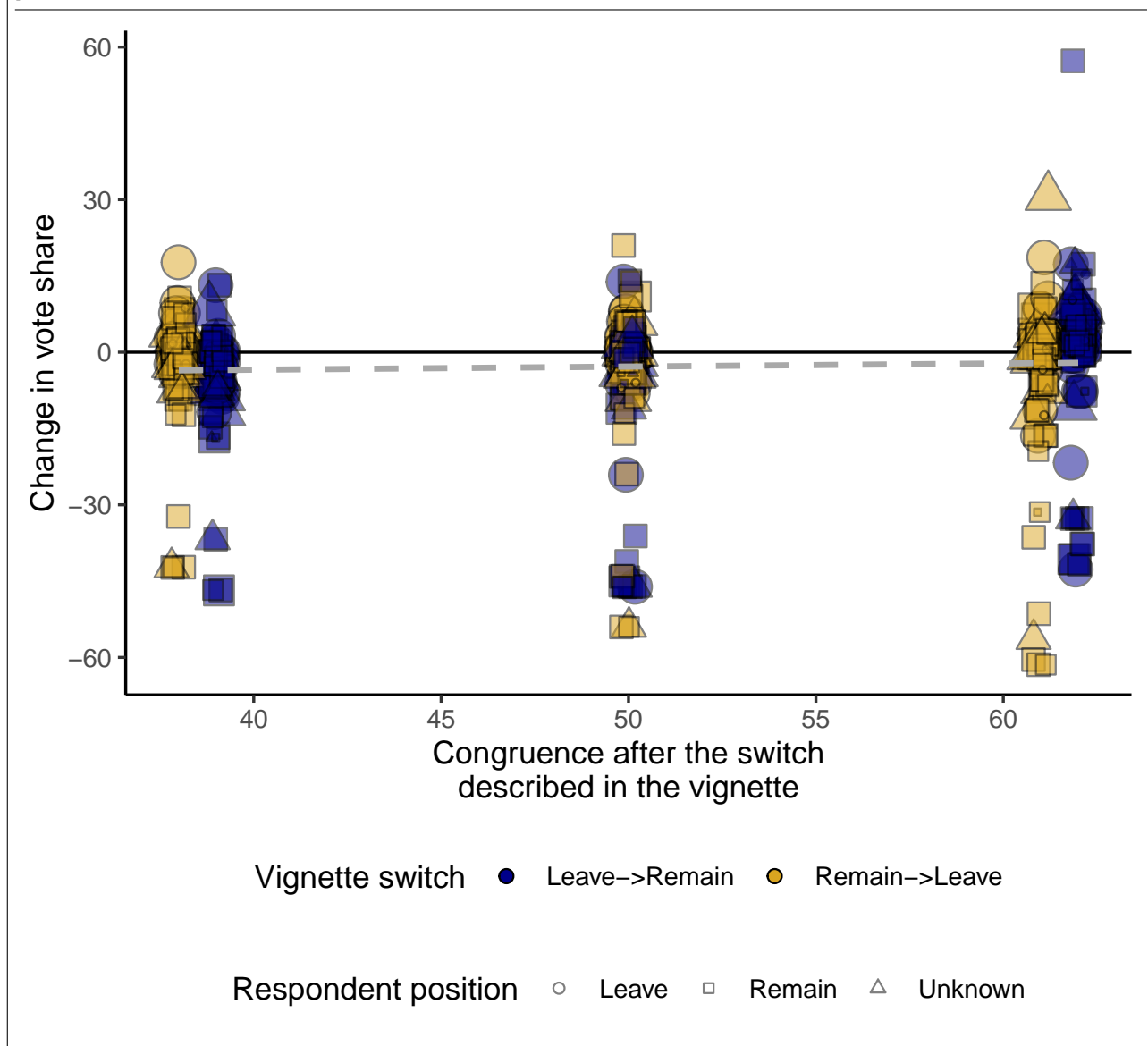
We presented MPs with vignettes because we wished to compare MPs' beliefs to the estimates

derived from regression models of voter behaviour. For this we need precise quantitative estimates rather than vague quantifiers ("a great deal", "somewhat", etc.). Vignettes, because they present survey respondents with precise, relevant factual stimuli, make these precise estimates possible. We asked MPs for their views on other MPs' electoral fortunes (rather than their own) in order to minimize any potential spotlight effect which might cause MPs to over-estimate the salience of their own actions to voters, but it is still possible that MPs as a group over-estimate the salience of individual politicians' stances. We also presented MPs with even numbers of Leave- and Remain-supporting incumbents. Within these groups, we selected incumbents who had high, average and low values of congruence (high = 62% of constituents supported the incumbent's position; average = 50% of constituents supported the incumbent's position; low = 38% of constituents supported the incumbent's position). We additionally selected only incumbents who faced challengers with a contrasting position on Brexit, since these contests represent the most favourable case for an accountability effect.

The survey was fielded between February 3 and March 25 2019 by Savanta ComRes, an opinion research firm who conduct regular panel studies of MPs' opinions, and who fielded our questions alongside other questions in an omnibus survey. A total of 111 MPs participated in the survey. Opposition MPs were over-represented in the sample, so we weight responses to reflect the partisan composition of the House of Commons after the 2019 general election. Because of the need to preserve respondent anonymity, the individual-level responses include information on MPs' referendum position and party only,¹⁴ except that for some MPs their referendum position was unclear or unknown (principally because they entered parliament after the 2017 or 2019 elections). Upon inspecting the data, we found that some MPs seemed to have misunderstood the question format. Although MPs were asked to give the share of the vote the incumbent would have won had they switched, a number of MPs gave uniformly low answers (less than 10 percentage points), which suggests they understood the question to be asking about the *additional* share of the vote the incumbent would have won. We exclude from our analysis respondents who gave blank responses or who only gave figures lower than or equal to ten percentage points, no matter the scenario. We are left with 576 responses from 96

¹⁴ We supplied Savanta ComRes with a list of MPs and positions, and Savanta ComRes merged this data with the survey data and sent us the resulting file. MPs were not asked for their referendum positions as part of the survey.

FIGURE 6. MPs estimates of counterfactual vote shares had named incumbent MPs shifted position on Brexit.



respondent MPs.

Figure 6 shows estimates of the change in vote share (politicians' estimates minus the incumbent's actual vote share in 2017) as a function of the degree of congruence following the switch implied by the vignette. Points are plotted using different colours to show Leave-to-Remain and Remain-to-Leave switchers separately, and using different shapes to show estimates from respondent MPs who originally supported Leave, Remain, or who had no clear position. Most estimates of change (four in every seven responses) are between -5 percentage points and +3 percentage points. The dashed grey line shows a weighted least-squares fit to the data.

Figure 6 provides a first indication that MPs do not expect that fellow MPs win substantially more votes by switching positions to become more congruent. On its own, however, the figure is not sufficient. In order to recover a figure which matches, as closely as possible, the estimates from our analysis of voter behaviour, we model MPs' estimates of counterfactual vote share using a multilevel linear regression. The parameters in the model are: an intercept, a dummy variable which has a value of one if the incumbent's previous position was to support Remain, and the value of congruence. These additional parameters have a substantive interpretation. The intercept allows for MPs to judge that incumbents in our vignettes generally do better or worse by switching. A negative intercept (which is suggested by figure 6) would indicate that MPs generally think incumbents do worse by switching position, regardless of whether this switch improves congruence. The dummy variable measuring the candidate's original position allows for certain switches to be regarded as generally positive or negative. A positive coefficient on this variable would, for example, indicate that switching to support Leave is regarded as electorally beneficial (perhaps because it signals independent-mindedness: Campbell et al. (2019)). The lagged vote share variable accounts for an obvious determinant of election outcomes (even hypothetical ones), and is better than directly modelling changes, for reasons set out by Tennant et al. (2019). We also include in our model respondent-specific random intercepts which allow for more generous and/or more variable respondent MPs.

TABLE 1. Multilevel regression of MPs' responses to survey vignettes

	MP estimate
Intercept	−0.693 (3.464)
Original share	0.770 (0.085)***
Congruence	0.140 (0.052)**
Remain to Leave switch	3.469 (1.043)***
AIC	4439.825
BIC	4465.930
Log Likelihood	−2213.912
Num. obs.	573
Num. groups: uuid	96
Var: uuid (Intercept)	69.588
Var: Residual	108.509

The resulting regression model is shown in Table 1. Although our best estimate for the intercept is negative, indicating that switching of any kind brings electoral costs, the coefficient is not significantly different from zero. The coefficient on "original position Remain" is positive, indicating that MPs thought that switches to support Leave would generally have been vote-winning, independently of whether they took place in a Leave-supporting or a Remain-supporting constituency. The influence of past vote share is statistically and substantively significant. Our focus, however, is on the effect of congruence. The coefficient reports the effect of a single unit increase, and so the effect of a standard deviation increase is roughly eleven times larger, at 1.5 percentage points (95% CI: 0.4 to 2.66 points). This figure is consistent with, but slightly larger than, the aggregate implications of our conditional issue sanctioning model (as above, 0.95 percentage points [95% CI: 0.53 to 1.38 percentage points]). Although effects at the upper end of this range (above two percentage points) would be regarded as substantively significant, our overall conclusion, bearing in mind the central estimate and the fact that we showed MPs the most favourable contests for issue accountability, is that MPs do, on average, believe that their accountability for issue stances is minimal.

Our claim throughout has been that the coefficient on congruence in our model of MPs' judgements can be compared with our estimates of the effects of congruence from our models of voter behaviour. This claim is less tenable the more MPs engage in expressive survey responses (Berinsky 2018) by estimating large vote shares for incumbents who switch to their preferred position, carry out survey satisficing (Krosnick 1999) by giving estimates of zero, one hundred, or "no change" responses, or incorporate additional vignette-specific contextual information not included in our individual level analysis. In supplementary analysis, we describe a set of additional models which exclude *prima facie* expressive or survey-satisficing responses, and which drop one vignette at a time. When expressive or survey-satisficing responses are excluded, the coefficient on congruence is smaller, but never smaller than 0.1, or 70% of the value reported in Table 1. When individual vignettes are dropped, the coefficient on congruence varies, but the differences between the baseline model and the leave-one-out models are never statistically significant. We encourage researchers who intend to elicit politicians' estimates of electoral accountability to consider these robustness checks when carrying out their analyses, and to use prefatory remarks which can minimize expressive responses (Berinsky 2018, 214-215). In this

particular case, MPs responses are consistent with the results of our analysis of voter behaviour, but that does not absolve researchers of the need to check for particular biases and processes common to all survey respondents.

CONCLUSIONS

In this study, we assessed the electoral benefit to incumbents of being in step with their constituents. To do this we estimated the effects on individual voters in the 2017 UK general election of having an MP who shared the respondent's position on the UK's exit from the EU. Averaging across all voters, we found that voters were 2.5 percentage points more likely to vote for an incumbent who shared their position on Brexit. In seats where the incumbent and the principal challenger held different positions on Brexit, this effect was greater: four percentage points. The aggregate consequences of these individual-level findings are smaller in magnitude, because gains amongst Brexit-supporting voters are offset by losses among Brexit opponents. We estimate that a standard deviation increase in congruence — understood as the percentage of constituents who share the incumbent's position — is associated with an increase in vote share of 0.6 percentage points, and that four of 632 seats might have changed parties, had incumbents adopted the vote-maximizing issue stance. In a follow-up study of MPs, we showed that MPs' estimates of the benefits on being in step are similar to the estimates we have presented here. On this basis, we conclude that MPs are not held accountable for their individual issue stances to any substantially meaningful degree.

We have made two distinctive contributions which we highlight here. The first is a methodological contribution: we have shown how vignettes can be used to elicit politicians' estimates of issue accountability, estimates which, in our particular context, were comparable in sign and magnitude to estimates based on the analysis of voter behaviour. Vignettes and models of voter behaviour needn't produce comparable estimates – politicians may have mistaken beliefs about electoral accountability – but our findings show that legislators as a group are not subject to a “spotlight effect” (Gilovich et al. 2000) which leads them to overstate the importance of their own policy stances. Vignettes and models of voter behaviour are complements, rather than substitutes, and the two can be fruitfully combined. Where politicians' estimates of issue accountability are smaller than estimates from models

of voter behaviour, researchers can improve issue accountability (assuming this to be a good thing) by publicising their findings about voter behaviour. Where instead politicians over-estimate issue accountability, researchers may instead combat a “noble myth” of highly-responsive policy-aware voters.

Our second contribution lies in confirming challenger position as an important mechanism of electoral issue accountability. Incumbents are only penalized for being out of step on an issue when their principal challenger has a different position on that issue. We are not the first to make this argument (Hollibaugh et al. 2013), but we are the first to show this using candidates’ actual issue positions rather than survey respondents’ perceptions of candidates. In this respect we are aided by British electoral geography and the multiparty system, which means that candidates from the same party can face challengers with very different positions on Brexit. This finding has relevance across all systems which use single member plurality, including studies of Congressional elections in the United States.

We have made claims about voter behavior in a particular British election. To what extent do our findings generalize across time and space? We argue that our findings represent an upper bound on the degree of individual accountability for issue positions found in British politics, and that they are likely to generalize to other party-centered systems which use single-member districts. We argue that this is an upper bound on similar effects for the British case because Brexit is — in absolute terms — a very important issue in British politics; because Brexit is — in relative terms — a more important issue than other issues which have prompted within-party division such as fox-hunting or abortion, and because we hold the auxiliary belief that accountability is likely to be greater on more important issues than less important issues. Our findings thus generalize across time within one country.

We also argue that our findings are likely to generalize across space to other countries which use single-member districts, though the degree to which they generalize will be context-specific. (We speak only to systems which use single-member districts because only these systems have the same one-to-one representative link). Suppose that the incentive to be in step with one’s constituents on a particular issue depends on the general system-level incentive to cultivate a personal vote, and on the importance of the issue, and that the general system-level incentive to cultivate a personal vote follows the ranking

set out in Carey and Shugart (1995). We can claim that individual issue accountability for issues with similar or lesser importance than Brexit will be either similar or weaker for other countries which, like the UK, use single-member plurality with party endorsements (Carey and Shugart's category (a)) — a category which includes India, Canada, and much of East Africa and the Caribbean.

For countries which have — in Carey and Shugart's (1995) typology — stronger incentives to cultivate a personal vote, our ability to generalize will depend on the relative contribution of issue importance and system-level incentives. If issue importance affects issue accountability much more than the system-level incentives, then our decision to study an extremely important issue in Brexit may allow us to make claims about issue accountability for issues of average importance in other countries with stronger system-level incentives. There are good reasons to think that issue importance matters greatly (Bovitz and Carson 2006; Highton 2019). We therefore argue that our findings provide information about the degree of accountability for issue positions, on issues of average importance, in other countries with stronger system-level incentives. For example: Carey and Shugart judge that France (because of the two-round system) and Australia (because of the alternative vote) have higher system-level incentives to cultivate a personal vote than the UK. We would argue that Brexit is more important to the UK political system than the *average* issue in French and Australian politics, and that it is therefore reasonable to believe that issue accountability for the average issue in those countries is equal to, or less than, the issue accountability effects we show here.

Our study has normative implications for electoral system choice. Specifically, we believe our findings make single-member plurality less attractive, because it does not generate within-party incentives for one-to-one congruence between the median voter within a constituency and the representative of that constituency. Within-party congruence still occurs (Hanretty et al. 2017), but it presumably occurs thanks to other mechanisms such as intrinsic motivation or selection. Within-party congruence is, we argue, an important part of the defense of single member plurality — or put slightly differently, we do not think defenders of single member plurality systems would be comfortable with the prospect that a Conservative MP in central London or Toronto faces the same set of policy incentives as a Conservative MP in East Anglia or Alberta. Although single-member plurality systems can be defended on other grounds, they should not be defended on the grounds that they generate particularly

strong reasons for legislators to follow their constituency's policy preferences.

SOFTWARE STATEMENT

The multilevel models shown in the article were estimated using the `brms` package (Bürkner 2017) for the R statistical environment (R Core Team 2019). Figures were created using `ggplot2` (Wickham 2016).

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MEMBERS OF PARLIAMENT ARE MINIMALLY ACCOUNTABLE FOR THEIR ISSUE STANCES (AND THEY KNOW IT) – APPENDIX

This appendix includes several analyses referenced in the main text, together with additional information relating to our handling of data.

- Table S1 provides summary statistics for our voter data;
- Tables S2 - S4 report coefficient values for the logistic regression models visualized, in the main body of the text, as Figure 3 (unconditional effects of congruence). The models in these tables are estimated on voters in Conservative-held seats, voters in Labour-held seats, and all voters respectively.
- Table S5 reports coefficient values for the logistic regression models visualized, in the main body of the text, as Figure 4 (conditional effects of congruence).
- Table S6 reports regressions of perceptions of MPs' stances of Brexit, visualized in the main body of the text as Figure 5
- Tables S7 - S9 report coefficient values for additional logistic regression models which replace actual congruence with perceived congruence, an analysis referenced in the text in the section "Objections and limitations".
- Table S10 report coefficient values for regression models of incumbent voting for a subset of Conservative-held seats where we have pre-2014 measures of the incumbent's stance on Europe. This analysis is referenced in the text in the section "Objections and limitations".
- Table S12 reports a logistic regression where the outcome variable is whether or not the incumbent MP elected in the 2015 election stood down before the 2017 election. This analysis is referenced in footnote 8.
- Tables S13 and S14 provide further analysis of our MP data, respectively removing certain types of responses and specific vignettes.

Note that continuous variables in the data have been standardized to have zero mean and unit standard deviation; the coefficient values therefore represent the effects of a one standard deviation change on the original scale.

TABLE S1. Summary statistics

var	Min	Max	Mean	SD	Missing
Import shock	0.06	0.75	0.33	0.13	0.01
(Shadow) cabinet member	0.00	1.00	0.10	0.30	0.00
R voted for incumbent	0.00	1.00	0.46	0.50	0.00
Congruence	0.00	1.00	0.46	0.50	0.00
Incumbent is Cons	0.00	1.00	0.63	0.48	0.00
Incumbent supported Leave	0.00	1.00	0.28	0.45	0.00
Incumbent undeclared	0.00	1.00	0.02	0.14	0.00
Two-term incumbent	0.00	1.00	0.38	0.49	0.00
Three-term incumbent or more	0.00	1.00	0.38	0.48	0.00
Lab PTV	-1.08	1.46	0.01	1.01	0.47
Cons PTV	-0.96	1.51	0.04	1.00	0.47
UKIP PTV	-0.80	1.83	0.06	1.02	0.46
Green PTV	-0.91	2.20	-0.03	0.99	0.47
LibDem PTV	-0.95	2.23	0.01	1.00	0.47
Perceived MP Brexit stance	1.00	5.00	3.16	1.25	0.35
Census: % unemployed	2.10	9.53	4.22	1.31	0.00
Sample weight	0.06	19.71	1.04	0.94	0.00
Census: % aged 18 to 24	5.73	32.68	9.30	3.73	0.00
UKIP share in 2015	1.22	33.79	14.17	5.37	0.00
LibDem share in 2015	1.26	38.18	7.85	7.67	0.00
Census: % w/ L4+ qualifications	12.07	57.39	27.04	8.07	0.00
Cons share in 2015	6.60	65.88	40.06	14.25	0.00
Leave support in 2014	18.96	71.94	51.74	9.04	0.00
Census: % nonwhite	1.02	76.91	11.71	14.22	0.00
Lab share in 2015	5.43	78.12	32.12	16.10	0.00

TABLE S2. Unconditional multilevel logistic regression models of incumbent vote choice. Conservative seats only. Models with (*) are estimated only on those who voted in the 2017 general election.

Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
(Intercept)	-2.097 (0.21)	-1.131 (0.223)	-1.015 (0.172)	-0.104 (0.172)	-1.332 (0.199)	-1.006 (0.208)
Conservative share 2015	0.559 (0.206)	0.741 (0.214)	0.433 (0.155)	0.593 (0.161)	0.529 (0.192)	0.575 (0.201)
Labour share 2015	0.289 (0.16)	0.427 (0.168)	-0.009 (0.117)	0.114 (0.121)	0.434 (0.141)	0.486 (0.155)
UKIP share 2015	0.114 (0.116)	0.141 (0.131)	-0.149 (0.081)	-0.14 (0.083)	0.144 (0.106)	0.129 (0.116)
Pct. aged 18-24, 2011						
census	-0.016 (0.12)	-0.007 (0.117)	-0.035 (0.087)	-0.037 (0.093)	-0.079 (0.107)	-0.062 (0.112)
Pct. w/ Level 4 qualifications						
of greater, 2011 census	-0.067 (0.243)	-0.109 (0.267)	-0.364 (0.181)	-0.395 (0.189)	-0.102 (0.243)	-0.099 (0.244)
Pct. non-white, 2011 census	0.028 (0.166)	0.142 (0.185)	0.023 (0.139)	-0.049 (0.143)	0.058 (0.163)	0.129 (0.17)
Pct. unemployed, 2011						
census	-0.038 (0.161)	-0.111 (0.172)	-0.128 (0.141)	-0.167 (0.146)	-0.061 (0.151)	-0.15 (0.159)
Import shock	0.107 (0.071)	0.045 (0.076)	-0.052 (0.053)	-0.077 (0.054)	0.098 (0.07)	0.086 (0.075)
Incumbent has served two						
terms	-0.107 (0.145)	-0.199 (0.158)	-0.051 (0.11)	-0.102 (0.112)	-0.276 (0.142)	-0.338 (0.15)
Incumbent has served three						
or more terms	-0.19 (0.144)	-0.219 (0.159)	-0.257 (0.117)	-0.268 (0.124)	-0.158 (0.142)	-0.216 (0.151)
Incumbent is (shadow)						
cabinet member	-0.076 (0.188)	-0.059 (0.206)	0.016 (0.156)	-0.09 (0.157)	-0.088 (0.197)	-0.027 (0.199)
Constituency support for						
Brexit in 2014	-0.151 (0.217)	-0.043 (0.254)	-0.174 (0.166)	-0.235 (0.167)	-0.174 (0.226)	-0.038 (0.236)
East of England	0.021 (0.228)	-0.145 (0.238)	0.094 (0.165)	0.086 (0.165)	-0.07 (0.215)	-0.151 (0.223)
London	0.316 (0.329)	0.033 (0.354)	-0.037 (0.262)	-0.076 (0.27)	0.136 (0.305)	0.056 (0.326)
North East	0.068 (0.497)	-0.174 (0.508)	-0.074 (0.415)	-0.4 (0.423)	-0.053 (0.436)	-0.191 (0.439)
North West	0.215 (0.245)	0.225 (0.256)	-0.084 (0.204)	-0.023 (0.203)	0.231 (0.236)	0.276 (0.245)
Scotland	1.456 (0.703)	1.401 (0.719)	0.276 (0.614)	0.351 (0.631)	1.036 (0.608)	1.076 (0.617)
South East	0.012 (0.213)	-0.035 (0.222)	-0.159 (0.171)	0.033 (0.168)	0.045 (0.19)	-0.007 (0.205)
South West	0.508 (0.219)	0.338 (0.233)	0.112 (0.177)	0.036 (0.169)	0.382 (0.209)	0.346 (0.212)
Wales	0.2 (0.348)	0.152 (0.386)	0.031 (0.281)	0.01 (0.275)	0.155 (0.335)	0.09 (0.348)
West Midlands	0.339 (0.261)	0.182 (0.244)	0.173 (0.191)	0.123 (0.18)	0.238 (0.21)	0.167 (0.214)
Yorkshire and the Humber	0.286 (0.263)	0.112 (0.27)	-0.184 (0.215)	-0.167 (0.223)	0.098 (0.245)	0.029 (0.245)
R propensity to vote Cons.	1.878 (0.068)	1.718 (0.08)	1.461 (0.064)	1.43 (0.067)	1.761 (0.069)	1.75 (0.071)

MPs are minimally accountable for their issue stances

TABLE S2. Unconditional multilevel logistic regression models of incumbent vote choice. Conservative seats only. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)

Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
R propensity to vote Labour	-0.599 (0.068)	-0.953 (0.066)	-0.498 (0.046)	-0.807 (0.058)	-0.715 (0.065)	-0.864 (0.072)
R propensity to vote Lib Dem	-0.195 (0.05)	-0.39 (0.05)	-0.206 (0.057)	-0.207 (0.056)	-0.317 (0.055)	-0.381 (0.053)
R propensity to vote UKIP	0.368 (0.068)	0.608 (0.081)	0.691 (0.053)	0.369 (0.056)	0.494 (0.076)	0.556 (0.084)
R propensity to vote Green	-0.413 (0.071)	-0.453 (0.06)	-0.404 (0.053)	-0.343 (0.051)	-0.407 (0.063)	-0.445 (0.063)
Incumbent campaigned to						
Remain in 2016	-0.011 (0.102)	0.073 (0.113)	-0.071 (0.085)	-0.091 (0.085)	-0.018 (0.068)	-0.026 (0.072)
Incumbent undeclared in						
2016	0.104 (0.33)	0.729 (0.354)	-0.154 (0.245)	0.114 (0.269)	0.178 (0.21)	0.381 (0.241)
sd__(Intercept)	0.519 (0.058)	0.457 (0.084)	0.451 (0.045)	0.276 (0.08)	0.331 (0.045)	0.272 (0.054)
R did not vote in 2016					-1.919 (0.311)	-0.796 (0.417)
R voted Leave in 2016					1.132 (0.218)	1.166 (0.232)
Congruence					0.052 (0.062)	0.109 (0.067)
Cons. share in 2015 by R did						
not vote in 2016					0.214 (0.334)	0.905 (0.481)
Cons. share in 2015 by R						
voted Leave in 2016					-0.114 (0.219)	-0.172 (0.242)
Lab. share in 2015 by R did						
not vote in 2016					-0.48 (0.271)	-0.486 (0.43)
Lab. share in 2015 by R						
voted Leave in 2016					-0.437 (0.158)	-0.388 (0.177)
UKIP share in 2015 by R did						
not vote in 2016					0.072 (0.209)	0.055 (0.265)
UKIP share in 2015 by R						
voted Leave in 2016					-0.375 (0.116)	-0.285 (0.129)

TABLE S2. Unconditional multilevel logistic regression models of incumbent vote choice. Conservative seats only. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)

Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
Pct. aged 18-24 by R did not vote in 2016					0.211 (0.202)	0.369 (0.289)
Pct. aged 18-24 by R voted Leave in 2016					-0.015 (0.119)	-0.022 (0.136)
Pct. with L4+ quals by R did not vote in 2016					-0.034 (0.366)	0.041 (0.493)
Pct. with L4+ quals by R voted Leave in 2016					-0.422 (0.28)	-0.314 (0.294)
Pct. nonwhite by R did not vote in 2016					0.108 (0.296)	0.181 (0.403)
Pct. nonwhite by R voted Leave in 2016					-0.026 (0.193)	-0.207 (0.216)
Pct. unemployed by R did not vote in 2016					-0.03 (0.324)	0.241 (0.447)
Pct. unemployed by R voted Leave in 2016					-0.142 (0.182)	-0.079 (0.205)
Import shock by R did not vote in 2016					-0.018 (0.116)	-0.167 (0.165)
Import shock by R voted Leave in 2016					-0.224 (0.076)	-0.167 (0.083)
Two-term incumbent by R did not vote in 2016					0.623 (0.234)	0.812 (0.327)
Three+ term incumbent by R did not vote in 2016					-0.008 (0.255)	0.049 (0.343)
Two-term incumbent by R voted Leave in 2016					0.139 (0.161)	0.163 (0.178)
Three+ term incumbent by R voted Leave in 2016					-0.096 (0.166)	-0.047 (0.183)
Cabinet member by R did not vote in 2016					0.115 (0.42)	-0.173 (0.415)
Cabinet member by R voted Leave in 2016					0.045 (0.219)	0.006 (0.238)

MPs are minimally accountable for their issue stances

TABLE S2. Unconditional multilevel logistic regression models of incumbent vote choice. Conservative seats only. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)

Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
2014 support for Brexit by R						
did not vote in 2016					-0.014 (0.354)	0.018 (0.475)
2014 support for Brexit by R						
voted Leave in 2016					-0.128 (0.253)	-0.252 (0.274)
East of England by R did not						
vote in 2016					-0.017 (0.328)	0.122 (0.437)
London by R did not vote in						
2016					0.345 (0.476)	-0.307 (0.571)
North East by R did not vote						
in 2016					-0.166 (0.745)	-0.417 (0.79)
North West by R did not vote						
in 2016					-0.06 (0.423)	-0.097 (0.516)
Scotland by R did not vote in						
2016					0.05 (0.934)	0.237 (0.999)
South East by R did not vote						
in 2016					-0.462 (0.33)	-0.088 (0.432)
South West by R did not vote						
in 2016					0.191 (0.39)	-0.138 (0.45)
Wales by R did not vote in						
2016					-0.069 (0.584)	0.08 (0.755)
West Midlands by R did not						
vote in 2016					0.353 (0.383)	-0.143 (0.495)
Yorks. by R did not vote in						
2016					0.064 (0.444)	0.557 (0.55)
East of England by R voted						
Leave in 2016					0.112 (0.234)	0.248 (0.245)
London by R voted Leave in						
2016					-0.401 (0.352)	-0.071 (0.392)
North East by R voted Leave						
in 2016					-0.272 (0.517)	-0.219 (0.549)
North West by R voted Leave						
in 2016					-0.387 (0.263)	-0.271 (0.292)

TABLE S2. Unconditional multilevel logistic regression models of incumbent vote choice. Conservative seats only. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)

Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
Scotland by R voted Leave in 2016					-1.183 (0.664)	-0.887 (0.707)
South East by R voted Leave in 2016					-0.203 (0.212)	0.048 (0.232)
South West by R voted Leave in 2016					-0.512 (0.223)	-0.361 (0.247)
Wales by R voted Leave in 2016					-0.264 (0.378)	-0.209 (0.398)
West Midlands by R voted Leave in 2016					-0.131 (0.233)	0.003 (0.252)
Yorks. by R voted Leave in 2016					-0.585 (0.273)	-0.322 (0.297)
PTV Cons. by R did not vote in 2016					-0.272 (0.179)	-0.136 (0.222)
PTV Cons. by R voted Leave in 2016					-0.37 (0.086)	-0.325 (0.086)
PTV Lab. by R did not vote in 2016					0.285 (0.213)	-0.369 (0.225)
PTV Lab. by R voted Leave in 2016					0.181 (0.087)	0.102 (0.105)
PTV LibDem by R did not vote in 2016					0.089 (0.19)	0.03 (0.185)
PTV LibDem by R voted Leave in 2016					0.123 (0.07)	0.188 (0.081)
PTV UKIP by R did not vote in 2016					0.128 (0.143)	0.262 (0.218)
PTV UKIP by R voted Leave in 2016					-0.177 (0.088)	-0.324 (0.093)
PTV Green by R did not vote in 2016					-0.114 (0.197)	0.006 (0.224)
PTV Green by R voted Leave in 2016					0.105 (0.101)	0.12 (0.08)

MPs are minimally accountable for their issue stances

TABLE S2. Unconditional multilevel logistic regression models of incumbent vote choice. Conservative seats only. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)						
Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
Number of obs.	7941	7017	8997	7830	15819	14351
Number of groups	315	315	315	315	315	315
SD, random area intercept	0.519	0.457	0.451	0.276	0.331	0.272

TABLE S3. Unconditional multilevel logistic regression models of incumbent vote choice. Labour seats only. Models with (*) are estimated only on those who voted in the 2017 general election.

Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
(Intercept)	-0.962 (0.392)	0.42 (0.43)	-1.202 (0.406)	-0.214 (0.455)	-0.25 (0.388)	0.132 (0.43)
Conservative share 2015	0.177 (0.185)	0.482 (0.209)	-0.057 (0.213)	0.023 (0.253)	0.319 (0.184)	0.506 (0.199)
Labour share 2015	0.417 (0.219)	0.607 (0.253)	0.363 (0.237)	0.419 (0.27)	0.312 (0.239)	0.507 (0.25)
UKIP share 2015	-0.09 (0.121)	0.166 (0.145)	-0.109 (0.127)	0.057 (0.148)	0.163 (0.134)	0.186 (0.145)
Pct. aged 18-24, 2011						
census	0.061 (0.075)	0.031 (0.083)	0.087 (0.081)	0.017 (0.094)	-0.006 (0.077)	0.021 (0.085)
Pct. w/ Level 4 qualifications						
of greater, 2011 census	0.13 (0.258)	-0.084 (0.304)	0.136 (0.273)	0.121 (0.326)	-0.178 (0.262)	-0.216 (0.294)
Pct. non-white, 2011 census	-0.12 (0.108)	0.07 (0.127)	-0.226 (0.111)	-0.048 (0.133)	0.064 (0.111)	0.052 (0.126)
Pct. unemployed, 2011						
census	-0.044 (0.12)	-0.138 (0.135)	-0.018 (0.12)	-0.028 (0.14)	-0.089 (0.129)	-0.138 (0.14)
Import shock	0.067 (0.068)	0.085 (0.08)	0.074 (0.074)	0.073 (0.088)	0.058 (0.072)	0.027 (0.08)
Incumbent has served two						
terms	-0.351 (0.19)	-0.473 (0.212)	-0.137 (0.197)	-0.13 (0.232)	-0.497 (0.189)	-0.501 (0.211)
Incumbent has served three						
or more terms	-0.227 (0.168)	-0.36 (0.192)	-0.022 (0.18)	-0.032 (0.207)	-0.215 (0.175)	-0.267 (0.189)
Incumbent is (shadow)						
cabinet member	-0.223 (0.194)	-0.259 (0.217)	-0.241 (0.198)	-0.178 (0.24)	-0.16 (0.205)	-0.317 (0.223)
Constituency support for						
Brexit in 2014	0.134 (0.247)	-0.126 (0.296)	0.213 (0.258)	0.055 (0.299)	-0.209 (0.256)	-0.171 (0.283)
East of England	-0.37 (0.458)	-0.475 (0.466)	0.101 (0.452)	0.137 (0.506)	-0.376 (0.419)	-0.348 (0.44)
London	0.113 (0.348)	-0.026 (0.368)	0.345 (0.361)	0.044 (0.408)	0.035 (0.352)	0.126 (0.357)
North East	0.02 (0.325)	0.181 (0.341)	-0.303 (0.31)	-0.077 (0.334)	0.176 (0.307)	0.142 (0.324)
North West	0.009 (0.271)	0.25 (0.281)	-0.161 (0.267)	-0.014 (0.287)	0.123 (0.267)	0.281 (0.277)
Scotland	-0.147 (0.645)	0.184 (0.643)	-0.113 (0.703)	0.438 (0.766)	0.411 (0.606)	0.444 (0.63)
South East	0.333 (0.559)	-0.068 (0.559)	-0.597 (0.605)	-0.903 (0.684)	0.397 (0.512)	0.013 (0.533)
South West	0.269 (0.45)	0.436 (0.458)	-0.572 (0.502)	-0.311 (0.585)	0.374 (0.415)	0.437 (0.44)
Wales	0.185 (0.308)	0.002 (0.32)	-0.126 (0.318)	-0.214 (0.353)	-0.091 (0.299)	-0.08 (0.325)
West Midlands	0.006 (0.307)	0.014 (0.321)	-0.008 (0.312)	-0.032 (0.349)	0.046 (0.306)	0.112 (0.318)
Yorkshire and the Humber	0.125 (0.276)	0.023 (0.292)	0.085 (0.287)	0.123 (0.306)	0.114 (0.272)	0.099 (0.285)
R propensity to vote Cons.	-0.603 (0.06)	-1.061 (0.088)	-0.752 (0.062)	-1.133 (0.089)	-0.831 (0.084)	-0.991 (0.089)

MPs are minimally accountable for their issue stances

TABLE S3. Unconditional multilevel logistic regression models of incumbent vote choice. Labour seats only. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)

Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
R propensity to vote Labour	1.7 (0.095)	1.614 (0.094)	1.458 (0.091)	1.419 (0.092)	1.559 (0.079)	1.654 (0.113)
R propensity to vote Lib Dem	-0.18 (0.061)	-0.457 (0.07)	-0.1 (0.06)	-0.126 (0.102)	-0.398 (0.072)	-0.49 (0.073)
R propensity to vote UKIP	-0.463 (0.076)	-0.237 (0.135)	-0.095 (0.055)	-0.62 (0.074)	-0.292 (0.089)	-0.253 (0.114)
R propensity to vote Green	0.261 (0.075)	0.195 (0.069)	0.167 (0.077)	0.325 (0.082)	0.211 (0.088)	0.195 (0.073)
Incumbent campaigned to						
Remain in 2016	0.094 (0.298)	0.158 (0.333)	-0.403 (0.298)	-0.368 (0.339)	-0.01 (0.245)	0.095 (0.268)
Incumbent undeclared in						
2016	0.521 (0.492)	0.817 (0.561)	0.05 (0.499)	0.149 (0.558)	0.566 (0.418)	0.714 (0.457)
sd__(Intercept)	0.618 (0.06)	0.586 (0.083)	0.685 (0.061)	0.744 (0.081)	0.524 (0.046)	0.538 (0.056)
R did not vote in 2016					-1.629 (0.402)	-0.235 (0.525)
R voted Leave in 2016					-0.933 (0.319)	-0.957 (0.355)
Congruence					0.366 (0.176)	0.349 (0.207)
Cons. share in 2015 by R did						
not vote in 2016					-0.274 (0.258)	-0.232 (0.438)
Cons. share in 2015 by R						
voted Leave in 2016					-0.407 (0.232)	-0.48 (0.254)
Lab. share in 2015 by R did						
not vote in 2016					0.196 (0.29)	0.401 (0.479)
Lab. share in 2015 by R						
voted Leave in 2016					-0.177 (0.284)	-0.249 (0.295)
UKIP share in 2015 by R did						
not vote in 2016					-0.427 (0.169)	0.045 (0.268)
UKIP share in 2015 by R						
voted Leave in 2016					-0.181 (0.149)	-0.139 (0.167)

TABLE S3. Unconditional multilevel logistic regression models of incumbent vote choice. Labour seats only. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)						
Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
Pct. aged 18-24 by R did not vote in 2016					0.237 (0.097)	0.095 (0.187)
Pct. aged 18-24 by R voted Leave in 2016					-0.028 (0.096)	-0.095 (0.103)
Pct. with L4+ quals by R did not vote in 2016					0.652 (0.334)	1.115 (0.501)
Pct. with L4+ quals by R voted Leave in 2016					0.107 (0.3)	0.143 (0.328)
Pct. nonwhite by R did not vote in 2016					-0.26 (0.141)	0.069 (0.249)
Pct. nonwhite by R voted Leave in 2016					-0.276 (0.13)	-0.182 (0.141)
Pct. unemployed by R did not vote in 2016					0.254 (0.169)	0.209 (0.239)
Pct. unemployed by R voted Leave in 2016					-0.007 (0.144)	0.097 (0.159)
Import shock by R did not vote in 2016					0.076 (0.097)	0.372 (0.191)
Import shock by R voted Leave in 2016					-0.074 (0.084)	-0.029 (0.095)
Two-term incumbent by R did not vote in 2016					0.152 (0.262)	0.301 (0.492)
Three+ term incumbent by R did not vote in 2016					0.046 (0.215)	-0.111 (0.367)
Two-term incumbent by R voted Leave in 2016					0.501 (0.22)	0.418 (0.25)
Three+ term incumbent by R voted Leave in 2016					0.331 (0.199)	0.317 (0.223)
Cabinet member by R did not vote in 2016					-0.044 (0.252)	0.53 (0.531)
Cabinet member by R voted Leave in 2016					-0.171 (0.266)	0.055 (0.28)

MPs are minimally accountable for their issue stances

TABLE S3. Unconditional multilevel logistic regression models of incumbent vote choice. Labour seats only. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)						
Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
2014 support for Brexit by R						
did not vote in 2016					0.633 (0.317)	0.408 (0.498)
2014 support for Brexit by R						
voted Leave in 2016					0.229 (0.288)	0.147 (0.317)
East of England by R did not						
vote in 2016					-0.399 (0.628)	0.384 (0.789)
London by R did not vote in						
2016					-0.166 (0.4)	-0.479 (0.651)
North East by R did not vote						
in 2016					-0.589 (0.425)	0.833 (0.666)
North West by R did not vote						
in 2016					-0.319 (0.341)	0.371 (0.506)
Scotland by R did not vote in						
2016					-1.199 (0.698)	-1.105 (0.867)
South East by R did not vote						
in 2016					-1.137 (0.655)	-2.069 (0.83)
South West by R did not vote						
in 2016					-0.897 (0.559)	-0.087 (0.749)
Wales by R did not vote in						
2016					0.478 (0.46)	0.793 (0.595)
West Midlands by R did not						
vote in 2016					-0.284 (0.353)	-0.412 (0.569)
Yorks. by R did not vote in						
2016					-0.244 (0.338)	-0.079 (0.483)
East of England by R voted						
Leave in 2016					0.755 (0.456)	0.713 (0.481)
London by R voted Leave in						
2016					0.542 (0.385)	0.095 (0.417)
North East by R voted Leave						
in 2016					-0.539 (0.316)	-0.351 (0.354)
North West by R voted Leave						
in 2016					-0.26 (0.291)	-0.36 (0.313)

TABLE S3. Unconditional multilevel logistic regression models of incumbent vote choice. Labour seats only. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)

Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
Scotland by R voted Leave in 2016					1.045 (0.791)	0.939 (0.79)
South East by R voted Leave in 2016					-0.719 (0.622)	-0.248 (0.665)
South West by R voted Leave in 2016					-0.993 (0.508)	-0.895 (0.552)
Wales by R voted Leave in 2016					-0.314 (0.325)	-0.286 (0.352)
West Midlands by R voted Leave in 2016					0.064 (0.331)	-0.116 (0.354)
Yorks. by R voted Leave in 2016					0.037 (0.286)	0.12 (0.314)
PTV Cons. by R did not vote in 2016					0.175 (0.132)	-0.572 (0.265)
PTV Cons. by R voted Leave in 2016					0.009 (0.102)	-0.037 (0.106)
PTV Lab. by R did not vote in 2016					-0.133 (0.175)	0.043 (0.287)
PTV Lab. by R voted Leave in 2016					-0.145 (0.1)	-0.243 (0.111)
PTV LibDem by R did not vote in 2016					0.38 (0.095)	0.306 (0.255)
PTV LibDem by R voted Leave in 2016					0.291 (0.118)	0.345 (0.118)
PTV UKIP by R did not vote in 2016					0.142 (0.138)	-0.246 (0.36)
PTV UKIP by R voted Leave in 2016					0.025 (0.111)	-0.187 (0.138)
PTV Green by R did not vote in 2016					-0.11 (0.1)	0.221 (0.23)
PTV Green by R voted Leave in 2016					0.031 (0.099)	0.07 (0.125)

MPs are minimally accountable for their issue stances

TABLE S3. Unconditional multilevel logistic regression models of incumbent vote choice. Labour seats only. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)

Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
Number of obs.	5420	4728	4863	3984	9370	8322
Number of groups	209	209	209	209	209	209
SD, random area intercept	0.618	0.586	0.685	0.744	0.524	0.538

TABLE S4. Unconditional multilevel logistic regression models of incumbent vote choice. All seats. Models with (*) are estimated only on those who voted in the 2017 general election.

Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
(Intercept)	-2.047 (0.206)	-1.089 (0.218)	-0.979 (0.183)	-0.054 (0.19)	-1.002 (0.183)	-0.756 (0.189)
Conservative share 2015	0.521 (0.207)	0.72 (0.215)	0.411 (0.166)	0.559 (0.178)	0.44 (0.159)	0.512 (0.166)
Labour share 2015	0.289 (0.161)	0.437 (0.168)	-0.008 (0.126)	0.111 (0.136)	0.53 (0.127)	0.651 (0.141)
UKIP share 2015	0.1 (0.116)	0.136 (0.131)	-0.153 (0.088)	-0.141 (0.096)	0.193 (0.092)	0.147 (0.101)
Pct. aged 18-24, 2011						
census	-0.025 (0.12)	-0.018 (0.121)	-0.027 (0.095)	-0.025 (0.103)	-0.034 (0.086)	0.005 (0.09)
Pct. w/ Level 4 qualifications						
of greater, 2011 census	-0.047 (0.234)	-0.115 (0.259)	-0.328 (0.191)	-0.342 (0.205)	-0.157 (0.204)	-0.148 (0.213)
Pct. non-white, 2011 census	0.031 (0.168)	0.15 (0.184)	-0.008 (0.149)	-0.053 (0.16)	0.171 (0.132)	0.111 (0.141)
Pct. unemployed, 2011						
census	-0.033 (0.162)	-0.119 (0.175)	-0.122 (0.15)	-0.167 (0.155)	-0.152 (0.125)	-0.229 (0.136)
Import shock	0.102 (0.073)	0.039 (0.077)	-0.056 (0.057)	-0.082 (0.062)	0.062 (0.062)	0.045 (0.065)
Incumbent has served two						
terms	-0.122 (0.147)	-0.224 (0.158)	-0.045 (0.119)	-0.09 (0.129)	-0.423 (0.126)	-0.489 (0.133)
Incumbent has served three						
or more terms	-0.193 (0.146)	-0.228 (0.159)	-0.26 (0.127)	-0.266 (0.141)	-0.257 (0.126)	-0.283 (0.139)
Incumbent is (shadow)						
cabinet member	-0.059 (0.193)	-0.057 (0.212)	0.024 (0.168)	-0.086 (0.174)	-0.014 (0.169)	-0.095 (0.177)
Constituency support for						
Brexit in 2014	-0.122 (0.211)	-0.039 (0.246)	-0.146 (0.174)	-0.188 (0.184)	-0.213 (0.191)	-0.074 (0.204)
East of England	-0.022 (0.219)	-0.183 (0.228)	0.087 (0.173)	0.066 (0.183)	-0.129 (0.205)	-0.195 (0.209)
London	0.261 (0.32)	-0.004 (0.337)	-0.032 (0.275)	-0.114 (0.294)	-0.088 (0.272)	0.027 (0.285)
North East	0.051 (0.456)	-0.101 (0.465)	-0.151 (0.405)	-0.373 (0.424)	0.27 (0.363)	-0.015 (0.371)
North West	0.171 (0.24)	0.196 (0.255)	-0.102 (0.213)	-0.053 (0.228)	0.298 (0.215)	0.336 (0.227)
Scotland	1.039 (0.616)	1.131 (0.638)	0.157 (0.581)	0.422 (0.611)	0.845 (0.551)	0.942 (0.563)
South East	-0.021 (0.206)	-0.064 (0.214)	-0.185 (0.181)	-0.006 (0.184)	0.018 (0.183)	0.013 (0.195)
South West	0.463 (0.212)	0.313 (0.229)	0.077 (0.186)	0 (0.187)	0.433 (0.199)	0.39 (0.21)
Wales	0.157 (0.341)	0.116 (0.369)	-0.006 (0.289)	-0.022 (0.294)	0.322 (0.285)	0.291 (0.3)
West Midlands	0.295 (0.247)	0.15 (0.236)	0.158 (0.195)	0.103 (0.195)	0.308 (0.196)	0.249 (0.202)
Yorkshire and the Humber	0.245 (0.255)	0.081 (0.266)	-0.207 (0.227)	-0.201 (0.244)	0.023 (0.216)	-0.026 (0.224)
R propensity to vote Cons.	1.885 (0.069)	1.725 (0.082)	1.473 (0.064)	1.452 (0.069)	1.616 (0.055)	1.685 (0.066)

MPs are minimally accountable for their issue stances

TABLE S4. Unconditional multilevel logistic regression models of incumbent vote choice. All seats. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)

Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
R propensity to vote Labour	-0.597 (0.068)	-0.951 (0.065)	-0.501 (0.046)	-0.816 (0.06)	-0.621 (0.05)	-0.804 (0.057)
R propensity to vote Lib Dem	-0.199 (0.05)	-0.395 (0.05)	-0.207 (0.057)	-0.207 (0.057)	-0.367 (0.051)	-0.419 (0.051)
R propensity to vote UKIP	0.369 (0.069)	0.612 (0.08)	0.696 (0.053)	0.375 (0.057)	0.462 (0.063)	0.574 (0.063)
R propensity to vote Green	-0.416 (0.072)	-0.458 (0.06)	-0.408 (0.053)	-0.349 (0.052)	-0.41 (0.053)	-0.463 (0.06)
Labour incumbent	1.032 (0.303)	1.414 (0.314)	-0.393 (0.295)	-0.282 (0.305)	0.297 (0.248)	0.358 (0.247)
Incumbent campaigned to						
Remain in 2016	0.004 (0.102)	0.099 (0.11)	-0.109 (0.089)	-0.116 (0.093)	0.004 (0.07)	0.007 (0.075)
Incumbent undeclared in						
2016	0.254 (0.292)	0.824 (0.309)	-0.053 (0.237)	0.192 (0.255)	0.315 (0.198)	0.527 (0.217)
Conservative share 2015,						
Labour inc.	-0.308 (0.251)	-0.181 (0.275)	-0.434 (0.251)	-0.474 (0.274)	-0.296 (0.199)	-0.233 (0.208)
Labour share 2015, Labour						
inc.	0.194 (0.268)	0.267 (0.297)	0.396 (0.239)	0.354 (0.264)	0.167 (0.201)	0.202 (0.222)
UKIP share 2015, Labour						
inc.	-0.171 (0.166)	0.063 (0.195)	0.05 (0.14)	0.217 (0.153)	0.067 (0.123)	0.16 (0.134)
Pct. aged 18-24, Labour inc.	0.095 (0.142)	0.059 (0.138)	0.094 (0.12)	0.026 (0.127)	0.063 (0.095)	0.046 (0.099)
Pct. w/ Level 4 quals or						
greater, Labour inc.	0.187 (0.32)	0.029 (0.371)	0.432 (0.298)	0.444 (0.321)	0.279 (0.243)	0.23 (0.271)
Pct. non-white, Labour inc.	-0.156 (0.192)	-0.08 (0.222)	-0.207 (0.174)	0.015 (0.185)	-0.142 (0.14)	-0.067 (0.152)
Pct. unemployed, Labour inc.	-0.012 (0.205)	-0.019 (0.218)	0.096 (0.18)	0.15 (0.185)	0.065 (0.144)	0.105 (0.148)
Import shock, Labour inc.	-0.019 (0.097)	0.055 (0.103)	0.119 (0.087)	0.142 (0.093)	0.029 (0.071)	0.03 (0.075)
Labour incumbent has						
served two terms	-0.229 (0.225)	-0.263 (0.251)	-0.09 (0.207)	-0.038 (0.227)	-0.12 (0.165)	-0.071 (0.177)

TABLE S4. Unconditional multilevel logistic regression models of incumbent vote choice. All seats. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)						
Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
Labour incumbent has						
served three or more terms	-0.04 (0.207)	-0.145 (0.233)	0.268 (0.199)	0.247 (0.218)	0.11 (0.163)	0.077 (0.171)
Labour incumbent is						
(shadow) cabinet member	-0.166 (0.265)	-0.211 (0.288)	-0.291 (0.239)	-0.123 (0.245)	-0.207 (0.191)	-0.213 (0.2)
Const'y support for Brexit in						
2014, Labour inc.	0.261 (0.309)	-0.104 (0.341)	0.313 (0.283)	0.192 (0.294)	0.205 (0.23)	0.101 (0.244)
East of England, Labour inc.	-0.229 (0.486)	-0.166 (0.484)	0.006 (0.425)	0.063 (0.447)	-0.085 (0.357)	0.056 (0.364)
London, Labour inc.	-0.014 (0.428)	0.084 (0.451)	0.268 (0.393)	0.019 (0.414)	0.177 (0.347)	0.134 (0.356)
North East, Labour inc.	0.078 (0.521)	0.377 (0.51)	-0.244 (0.467)	0.195 (0.478)	0.028 (0.394)	0.309 (0.415)
North West, Labour inc.	-0.056 (0.335)	0.148 (0.34)	-0.14 (0.298)	-0.057 (0.315)	-0.118 (0.253)	-0.014 (0.264)
Scotland, Labour inc.	-0.727 (0.722)	-0.41 (0.745)	-0.271 (0.731)	0.245 (0.769)	0.156 (0.651)	0.178 (0.669)
South East, Labour inc.	0.46 (0.536)	0.08 (0.552)	-0.597 (0.572)	-1.087 (0.632)	0.211 (0.446)	0.029 (0.462)
South West, Labour inc.	0.009 (0.463)	0.313 (0.468)	-0.743 (0.472)	-0.37 (0.528)	-0.132 (0.361)	0.149 (0.379)
Wales, Labour inc.	0.172 (0.415)	0.041 (0.447)	-0.211 (0.378)	-0.25 (0.395)	-0.161 (0.314)	-0.151 (0.329)
West Midlands, Labour inc.	-0.167 (0.392)	-0.045 (0.365)	-0.234 (0.333)	-0.226 (0.337)	-0.233 (0.286)	-0.164 (0.285)
Yorkshire and the Humber,						
Labour inc.	-0.003 (0.347)	0.048 (0.356)	0.197 (0.315)	0.225 (0.322)	0.269 (0.27)	0.258 (0.275)
R propensity to vote Cons.,						
Labour inc.	-2.482 (0.097)	-2.772 (0.143)	-2.206 (0.096)	-2.539 (0.13)	-2.334 (0.09)	-2.598 (0.107)
R propensity to vote Labour,						
Labour inc.	2.288 (0.119)	2.551 (0.121)	1.934 (0.111)	2.185 (0.119)	2.046 (0.083)	2.328 (0.097)
R propensity to vote Lib Dem,						
Labour inc.	0.019 (0.08)	-0.059 (0.089)	0.108 (0.093)	0.084 (0.136)	0.053 (0.069)	0.013 (0.084)

MPs are minimally accountable for their issue stances

TABLE S4. Unconditional multilevel logistic regression models of incumbent vote choice. All seats. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)

Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
R propensity to vote UKIP,						
Labour inc.	-0.831 (0.076)	-0.847 (0.141)	-0.789 (0.07)	-0.972 (0.072)	-0.746 (0.051)	-0.857 (0.061)
R propensity to vote Green,						
Labour inc.	0.675 (0.097)	0.65 (0.085)	0.572 (0.072)	0.66 (0.099)	0.617 (0.067)	0.662 (0.072)
sd__(Intercept)	0.573 (0.042)	0.525 (0.058)	0.543 (0.036)	0.476 (0.051)	0.42 (0.032)	0.387 (0.035)
R did not vote in 2016					-1.549 (0.225)	-0.026 (0.284)
R voted Leave in 2016					0.385 (0.171)	0.474 (0.181)
Congruence					0.165 (0.055)	0.228 (0.061)
Cons. share in 2015 by R did not vote in 2016					-0.164 (0.182)	-0.224 (0.226)
Cons. share in 2015 by R voted Leave in 2016					0.067 (0.125)	0.1 (0.138)
Lab. share in 2015 by R did not vote in 2016					-0.373 (0.187)	-0.153 (0.232)
Lab. share in 2015 by R voted Leave in 2016					-0.646 (0.124)	-0.706 (0.136)
UKIP share in 2015 by R did not vote in 2016					-0.33 (0.12)	0.094 (0.172)
UKIP share in 2015 by R voted Leave in 2016					-0.397 (0.086)	-0.333 (0.096)
Pct. aged 18-24 by R did not vote in 2016					0.19 (0.079)	0.18 (0.136)
Pct. aged 18-24 by R voted Leave in 2016					-0.087 (0.065)	-0.133 (0.073)
Pct. with L4+ quals by R did not vote in 2016					0.156 (0.241)	0.587 (0.345)
Pct. with L4+ quals by R voted Leave in 2016					-0.328 (0.194)	-0.296 (0.211)

TABLE S4. Unconditional multilevel logistic regression models of incumbent vote choice. All seats. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)						
Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
Pct. nonwhite by R did not vote in 2016					-0.111 (0.131)	0.14 (0.18)
Pct. nonwhite by R voted Leave in 2016					-0.223 (0.098)	-0.198 (0.111)
Pct. unemployed by R did not vote in 2016					0.16 (0.149)	0.131 (0.185)
Pct. unemployed by R voted Leave in 2016					-0.007 (0.102)	0.074 (0.121)
Import shock by R did not vote in 2016					0.027 (0.075)	0.05 (0.109)
Import shock by R voted Leave in 2016					-0.168 (0.055)	-0.113 (0.06)
Two-term incumbent by R did not vote in 2016					0.458 (0.184)	0.798 (0.238)
Three+ term incumbent by R did not vote in 2016					0.117 (0.171)	0.136 (0.22)
Two-term incumbent by R voted Leave in 2016					0.435 (0.121)	0.44 (0.135)
Three+ term incumbent by R voted Leave in 2016					0.045 (0.118)	0.041 (0.133)
Cabinet member by R did not vote in 2016					0.013 (0.204)	0.126 (0.315)
Cabinet member by R voted Leave in 2016					-0.056 (0.171)	0.073 (0.188)
2014 support for Brexit by R did not vote in 2016					0.244 (0.236)	0.275 (0.364)
2014 support for Brexit by R voted Leave in 2016					-0.062 (0.184)	-0.188 (0.203)
East of England by R did not vote in 2016					-0.063 (0.289)	0.19 (0.36)
London by R did not vote in 2016					0.242 (0.312)	-0.118 (0.4)

MPs are minimally accountable for their issue stances

TABLE S4. Unconditional multilevel logistic regression models of incumbent vote choice. All seats. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)

Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
North East by R did not vote in 2016					-0.596 (0.334)	0.312 (0.47)
North West by R did not vote in 2016					-0.221 (0.288)	-0.056 (0.378)
Scotland by R did not vote in 2016					-1.267 (0.665)	-0.681 (0.799)
South East by R did not vote in 2016					-0.501 (0.279)	-0.049 (0.365)
South West by R did not vote in 2016					-0.213 (0.305)	-0.137 (0.391)
Wales by R did not vote in 2016					0.164 (0.364)	0.451 (0.454)
West Midlands by R did not vote in 2016					0 (0.271)	-0.219 (0.389)
Yorks. by R did not vote in 2016					-0.282 (0.259)	-0.152 (0.348)
East of England by R voted Leave in 2016					0.219 (0.206)	0.291 (0.22)
London by R voted Leave in 2016					0.04 (0.259)	-0.016 (0.284)
North East by R voted Leave in 2016					-0.877 (0.247)	-0.644 (0.281)
North West by R voted Leave in 2016					-0.535 (0.195)	-0.452 (0.219)
Scotland by R voted Leave in 2016					-0.492 (0.589)	-0.35 (0.626)
South East by R voted Leave in 2016					-0.17 (0.192)	0.015 (0.209)
South West by R voted Leave in 2016					-0.574 (0.2)	-0.425 (0.226)
Wales by R voted Leave in 2016					-0.586 (0.237)	-0.492 (0.267)

TABLE S4. Unconditional multilevel logistic regression models of incumbent vote choice. All seats. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)

Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
West Midlands by R voted						
Leave in 2016					-0.181 (0.193)	-0.097 (0.214)
Yorks. by R voted Leave in						
2016					-0.422 (0.199)	-0.164 (0.22)
PTV Cons. by R did not vote						
in 2016					-0.04 (0.108)	-0.313 (0.12)
PTV Cons. by R voted Leave						
in 2016					-0.165 (0.068)	-0.198 (0.072)
PTV Lab. by R did not vote in						
2016					0.043 (0.138)	-0.23 (0.156)
PTV Lab. by R voted Leave						
in 2016					0.029 (0.061)	-0.026 (0.075)
PTV LibDem by R did not						
vote in 2016					0.251 (0.091)	0.143 (0.112)
PTV LibDem by R voted						
Leave in 2016					0.185 (0.055)	0.238 (0.065)
PTV UKIP by R did not vote						
in 2016					0.125 (0.105)	0.009 (0.183)
PTV UKIP by R voted Leave						
in 2016					-0.087 (0.056)	-0.28 (0.064)
PTV Green by R did not vote						
in 2016					-0.093 (0.103)	0.103 (0.122)
PTV Green by R voted Leave						
in 2016					0.081 (0.081)	0.109 (0.08)
Number of obs.	13361	11745	13860	11814	25189	22673
Number of groups	524	524	524	524	524	524
SD, random area intercept	0.573	0.525	0.543	0.476	0.42	0.387

MPs are minimally accountable for their issue stances

TABLE S5. Conditional multilevel logistic regression models of incumbent vote choice. Models with (*) are estimated only on those who voted in the 2017 general election.

Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
(Intercept)	-2.002 (0.288)	-0.964 (0.303)	-1.067 (0.247)	-0.154 (0.251)	-0.929 (0.196)	-0.653 (0.201)
Conservative share 2015	0.517 (0.206)	0.713 (0.209)	0.418 (0.169)	0.572 (0.176)	0.459 (0.158)	0.538 (0.166)
Labour share 2015	0.294 (0.163)	0.448 (0.168)	-0.013 (0.128)	0.104 (0.133)	0.513 (0.128)	0.632 (0.141)
UKIP share 2015	0.096 (0.121)	0.122 (0.136)	-0.141 (0.091)	-0.13 (0.096)	0.162 (0.095)	0.11 (0.105)
Pct. aged 18-24, 2011						
census	-0.029 (0.122)	-0.028 (0.121)	-0.023 (0.095)	-0.014 (0.104)	-0.031 (0.087)	0.005 (0.091)
Pct. w/ Level 4 qualifications						
of greater, 2011 census	-0.049 (0.244)	-0.127 (0.264)	-0.319 (0.192)	-0.324 (0.206)	-0.176 (0.204)	-0.177 (0.216)
Pct. non-white, 2011 census	0.03 (0.166)	0.148 (0.178)	-0.003 (0.146)	-0.058 (0.157)	0.158 (0.132)	0.096 (0.141)
Pct. unemployed, 2011						
census	-0.033 (0.162)	-0.116 (0.174)	-0.124 (0.149)	-0.16 (0.156)	-0.153 (0.126)	-0.227 (0.136)
Import shock	0.102 (0.072)	0.04 (0.076)	-0.056 (0.057)	-0.081 (0.062)	0.058 (0.062)	0.043 (0.066)
Incumbent has served two						
terms	-0.122 (0.149)	-0.228 (0.159)	-0.045 (0.119)	-0.093 (0.128)	-0.422 (0.126)	-0.491 (0.134)
Incumbent has served three						
or more terms	-0.193 (0.148)	-0.229 (0.16)	-0.261 (0.129)	-0.271 (0.139)	-0.267 (0.127)	-0.297 (0.139)
Incumbent is (shadow)						
cabinet member	-0.061 (0.194)	-0.066 (0.211)	0.036 (0.165)	-0.077 (0.175)	-0.031 (0.168)	-0.117 (0.178)
Constituency support for						
Brexit in 2014	-0.124 (0.222)	-0.05 (0.252)	-0.14 (0.174)	-0.175 (0.185)	-0.23 (0.192)	-0.1 (0.208)
East of England	-0.024 (0.217)	-0.189 (0.227)	0.082 (0.175)	0.072 (0.183)	-0.123 (0.204)	-0.193 (0.212)
London	0.263 (0.321)	-0.003 (0.338)	-0.045 (0.272)	-0.115 (0.292)	-0.097 (0.27)	0.019 (0.287)
North East	0.052 (0.458)	-0.093 (0.474)	-0.156 (0.407)	-0.388 (0.423)	0.242 (0.371)	-0.044 (0.375)
North West	0.17 (0.239)	0.191 (0.254)	-0.111 (0.215)	-0.051 (0.227)	0.297 (0.214)	0.333 (0.228)
Scotland	1.025 (0.622)	1.11 (0.631)	0.169 (0.588)	0.447 (0.614)	0.848 (0.565)	0.935 (0.566)
South East	-0.019 (0.205)	-0.06 (0.217)	-0.193 (0.181)	-0.01 (0.186)	-0.012 (0.184)	-0.019 (0.199)
South West	0.467 (0.212)	0.317 (0.227)	0.07 (0.184)	0 (0.19)	0.423 (0.201)	0.378 (0.215)
Wales	0.163 (0.34)	0.109 (0.365)	-0.011 (0.289)	-0.008 (0.293)	0.332 (0.281)	0.302 (0.301)
West Midlands	0.296 (0.248)	0.153 (0.236)	0.149 (0.198)	0.099 (0.192)	0.308 (0.196)	0.247 (0.202)
Yorkshire and the Humber	0.249 (0.26)	0.089 (0.269)	-0.218 (0.227)	-0.197 (0.245)	0.017 (0.216)	-0.027 (0.223)
R propensity to vote Cons.	1.886 (0.068)	1.726 (0.083)	1.474 (0.064)	1.453 (0.069)	1.62 (0.055)	1.691 (0.067)

TABLE S5. Conditional multilevel logistic regression models of incumbent vote choice. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)						
Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
R propensity to vote Labour	-0.598 (0.067)	-0.952 (0.066)	-0.5 (0.046)	-0.817 (0.059)	-0.62 (0.051)	-0.801 (0.057)
R propensity to vote Lib Dem	-0.2 (0.049)	-0.394 (0.05)	-0.208 (0.056)	-0.209 (0.057)	-0.367 (0.051)	-0.419 (0.05)
R propensity to vote UKIP	0.37 (0.068)	0.613 (0.08)	0.695 (0.053)	0.374 (0.057)	0.458 (0.062)	0.569 (0.064)
R propensity to vote Green	-0.415 (0.071)	-0.459 (0.059)	-0.408 (0.053)	-0.349 (0.052)	-0.406 (0.053)	-0.459 (0.06)
Labour incumbent	1.029 (0.304)	1.395 (0.324)	-0.386 (0.281)	-0.27 (0.297)	0.299 (0.244)	0.359 (0.248)
Incumbent campaigned to						
Remain in 2016	-0.033 (0.233)	-0.004 (0.225)	-0.029 (0.187)	-0.035 (0.177)	0.003 (0.081)	0.004 (0.08)
Incumbent undeclared in						
2016	0.219 (0.33)	0.732 (0.34)	0.025 (0.265)	0.273 (0.275)	0.26 (0.218)	0.445 (0.231)
Contrast between top two	-0.06 (0.251)	-0.154 (0.257)	0.119 (0.182)	0.126 (0.178)	-0.106 (0.1)	-0.147 (0.09)
Conservative share 2015,						
Labour inc.	-0.305 (0.255)	-0.172 (0.274)	-0.44 (0.244)	-0.488 (0.275)	-0.307 (0.198)	-0.247 (0.207)
Labour share 2015, Labour						
inc.	0.184 (0.29)	0.26 (0.303)	0.4 (0.25)	0.36 (0.271)	0.168 (0.2)	0.205 (0.219)
UKIP share 2015, Labour						
inc.	-0.167 (0.163)	0.079 (0.19)	0.04 (0.141)	0.205 (0.152)	0.064 (0.124)	0.155 (0.133)
Pct. aged 18-24, Labour inc.	0.099 (0.144)	0.072 (0.138)	0.09 (0.12)	0.013 (0.128)	0.061 (0.096)	0.047 (0.099)
Pct. w/ Level 4 quals or						
greater, Labour inc.	0.186 (0.336)	0.048 (0.379)	0.422 (0.302)	0.422 (0.325)	0.275 (0.245)	0.229 (0.272)
Pct. non-white, Labour inc.	-0.154 (0.192)	-0.079 (0.218)	-0.21 (0.173)	0.019 (0.184)	-0.144 (0.14)	-0.072 (0.153)
Pct. unemployed, Labour inc.	-0.013 (0.207)	-0.02 (0.219)	0.098 (0.182)	0.142 (0.186)	0.065 (0.144)	0.105 (0.149)
Import shock, Labour inc.	-0.02 (0.094)	0.054 (0.102)	0.118 (0.086)	0.139 (0.093)	0.032 (0.071)	0.032 (0.076)

TABLE S5. Conditional multilevel logistic regression models of incumbent vote choice. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)

Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
Labour incumbent has served two terms	-0.224 (0.225)	-0.256 (0.253)	-0.092 (0.208)	-0.037 (0.23)	-0.114 (0.167)	-0.063 (0.177)
Labour incumbent has served three or more terms	-0.037 (0.211)	-0.145 (0.234)	0.269 (0.201)	0.257 (0.217)	0.116 (0.165)	0.085 (0.171)
Labour incumbent is (shadow) cabinet member	-0.158 (0.265)	-0.197 (0.287)	-0.308 (0.238)	-0.14 (0.251)	-0.208 (0.19)	-0.216 (0.198)
Const'y support for Brexit in 2014, Labour inc.	0.259 (0.324)	-0.087 (0.349)	0.305 (0.283)	0.174 (0.299)	0.203 (0.231)	0.103 (0.248)
East of England, Labour inc.	-0.246 (0.492)	-0.171 (0.481)	0.019 (0.437)	0.062 (0.448)	-0.083 (0.354)	0.062 (0.362)
London, Labour inc.	-0.013 (0.423)	0.092 (0.45)	0.269 (0.395)	0.01 (0.414)	0.19 (0.344)	0.148 (0.353)
North East, Labour inc.	0.075 (0.517)	0.378 (0.514)	-0.249 (0.474)	0.196 (0.478)	0.026 (0.399)	0.304 (0.417)
North West, Labour inc.	-0.05 (0.331)	0.161 (0.342)	-0.138 (0.296)	-0.071 (0.312)	-0.115 (0.252)	-0.012 (0.262)
Scotland, Labour inc.	-0.726 (0.725)	-0.401 (0.734)	-0.278 (0.729)	0.235 (0.777)	0.138 (0.656)	0.171 (0.674)
South East, Labour inc.	0.47 (0.547)	0.08 (0.545)	-0.605 (0.574)	-1.098 (0.64)	0.214 (0.447)	0.021 (0.468)
South West, Labour inc.	0 (0.463)	0.324 (0.467)	-0.746 (0.475)	-0.374 (0.531)	-0.124 (0.359)	0.153 (0.383)
Wales, Labour inc.	0.166 (0.409)	0.06 (0.44)	-0.207 (0.373)	-0.273 (0.396)	-0.171 (0.311)	-0.16 (0.327)
West Midlands, Labour inc.	-0.163 (0.392)	-0.033 (0.365)	-0.243 (0.331)	-0.239 (0.336)	-0.225 (0.285)	-0.152 (0.285)
Yorkshire and the Humber, Labour inc.	-0.001 (0.352)	0.056 (0.364)	0.198 (0.323)	0.206 (0.318)	0.274 (0.274)	0.261 (0.275)
R propensity to vote Cons., Labour inc.	-2.484 (0.096)	-2.774 (0.144)	-2.207 (0.096)	-2.541 (0.131)	-2.337 (0.089)	-2.603 (0.108)
R propensity to vote Labour, Labour inc.	2.292 (0.119)	2.556 (0.122)	1.936 (0.112)	2.185 (0.12)	2.046 (0.084)	2.326 (0.098)

TABLE S5. Conditional multilevel logistic regression models of incumbent vote choice. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)

Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
R propensity to vote Lib Dem,						
Labour inc.	0.018 (0.079)	-0.062 (0.089)	0.109 (0.092)	0.085 (0.136)	0.051 (0.068)	0.008 (0.083)
R propensity to vote UKIP,						
Labour inc.	-0.83 (0.076)	-0.849 (0.141)	-0.79 (0.07)	-0.972 (0.073)	-0.737 (0.051)	-0.847 (0.062)
R propensity to vote Green,						
Labour inc.	0.675 (0.096)	0.651 (0.084)	0.572 (0.072)	0.659 (0.099)	0.613 (0.066)	0.657 (0.071)
MP supported Remain,						
contrast	0.048 (0.409)	0.132 (0.355)	-0.101 (0.31)	-0.097 (0.267)		
MP supported neither						
Remain nor Leave, contrast	-0.006 (1.005)	-0.001 (1.009)	-0.007 (0.996)	0.01 (0.992)		
sd__(Intercept)	0.576 (0.044)	0.526 (0.058)	0.544 (0.036)	0.477 (0.051)	0.421 (0.032)	0.39 (0.035)
R did not vote in 2016					-1.562 (0.227)	-0.049 (0.285)
R voted Leave in 2016					0.351 (0.172)	0.435 (0.186)
Congruence					0.03 (0.079)	0.058 (0.095)
Cons. share in 2015 by R did						
not vote in 2016					-0.166 (0.182)	-0.244 (0.227)
Cons. share in 2015 by R						
voted Leave in 2016					0.044 (0.125)	0.067 (0.14)
Lab. share in 2015 by R did						
not vote in 2016					-0.34 (0.185)	-0.126 (0.235)
Lab. share in 2015 by R						
voted Leave in 2016					-0.623 (0.126)	-0.675 (0.137)
UKIP share in 2015 by R did						
not vote in 2016					-0.289 (0.118)	0.133 (0.175)
UKIP share in 2015 by R						
voted Leave in 2016					-0.334 (0.088)	-0.255 (0.103)
Pct. aged 18-24 by R did not						
vote in 2016					0.187 (0.079)	0.175 (0.136)

MPs are minimally accountable for their issue stances

TABLE S5. Conditional multilevel logistic regression models of incumbent vote choice. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)						
Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
2014 support for Brexit by R						
voted Leave in 2016					-0.025 (0.184)	-0.135 (0.206)
East of England by R did not						
vote in 2016					-0.099 (0.291)	0.157 (0.36)
London by R did not vote in						
2016					0.236 (0.311)	-0.11 (0.395)
North East by R did not vote						
in 2016					-0.567 (0.338)	0.341 (0.476)
North West by R did not vote						
in 2016					-0.235 (0.287)	-0.069 (0.384)
Scotland by R did not vote in						
2016					-1.272 (0.657)	-0.665 (0.795)
South East by R did not vote						
in 2016					-0.482 (0.28)	-0.031 (0.363)
South West by R did not vote						
in 2016					-0.208 (0.305)	-0.137 (0.387)
Wales by R did not vote in						
2016					0.161 (0.366)	0.422 (0.459)
West Midlands by R did not						
vote in 2016					-0.01 (0.273)	-0.215 (0.392)
Yorks. by R did not vote in						
2016					-0.281 (0.257)	-0.142 (0.35)
East of England by R voted						
Leave in 2016					0.201 (0.206)	0.268 (0.224)
London by R voted Leave in						
2016					0.035 (0.256)	-0.032 (0.287)
North East by R voted Leave						
in 2016					-0.83 (0.248)	-0.587 (0.281)
North West by R voted Leave						
in 2016					-0.542 (0.193)	-0.465 (0.22)
Scotland by R voted Leave in						
2016					-0.455 (0.586)	-0.317 (0.62)

MPs are minimally accountable for their issue stances

TABLE S5. Conditional multilevel logistic regression models of incumbent vote choice. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)

Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
South East by R voted Leave in 2016					-0.134 (0.194)	0.054 (0.215)
South West by R voted Leave in 2016					-0.567 (0.201)	-0.418 (0.23)
Wales by R voted Leave in 2016					-0.601 (0.237)	-0.513 (0.267)
West Midlands by R voted Leave in 2016					-0.194 (0.195)	-0.116 (0.216)
Yorks. by R voted Leave in 2016					-0.429 (0.198)	-0.181 (0.219)
PTV Cons. by R did not vote in 2016					-0.048 (0.109)	-0.318 (0.12)
PTV Cons. by R voted Leave in 2016					-0.17 (0.068)	-0.203 (0.072)
PTV Lab. by R did not vote in 2016					0.046 (0.14)	-0.236 (0.155)
PTV Lab. by R voted Leave in 2016					0.031 (0.06)	-0.028 (0.075)
PTV LibDem by R did not vote in 2016					0.254 (0.091)	0.147 (0.109)
PTV LibDem by R voted Leave in 2016					0.186 (0.056)	0.24 (0.065)
PTV UKIP by R did not vote in 2016					0.124 (0.105)	0.009 (0.18)
PTV UKIP by R voted Leave in 2016					-0.086 (0.057)	-0.28 (0.065)
PTV Green by R did not vote in 2016					-0.094 (0.104)	0.101 (0.124)
PTV Green by R voted Leave in 2016					0.079 (0.081)	0.107 (0.079)
Congruence times contrast					0.247 (0.1)	0.311 (0.127)

TABLE S5. Conditional multilevel logistic regression models of incumbent vote choice. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)

Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
Number of obs.	13361	11745	13860	11814	25189	22673
Number of groups	524	524	524	524	524	524
SD, random area intercept	0.576	0.526	0.544	0.477	0.421	0.39

MPs are minimally accountable for their issue stances

TABLE S6. Multilevel linear models of perceptions of incumbents MPs' stances on Brexit. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)

Term	Con. incumb.	Con. incumb. (*)	Lab. incumb.	Lab. incumb. (*)	All	All voters (*)
R propensity to vote Labour	0.012 (0.025)	0.003 (0.026)	-0.071 (0.031)	-0.076 (0.033)	-0.014 (0.021)	-0.033 (0.022)
R propensity to vote Lib Dem	-0.016 (0.018)	-0.018 (0.021)	0.007 (0.024)	0.014 (0.024)	-0.024 (0.017)	-0.02 (0.018)
R propensity to vote UKIP	-0.035 (0.03)	-0.043 (0.031)	0.03 (0.043)	0.024 (0.043)	-0.014 (0.028)	-0.017 (0.028)
R propensity to vote Green	0.04 (0.021)	0.034 (0.021)	-0.003 (0.023)	-0.004 (0.024)	0.04 (0.019)	0.038 (0.019)
R did not vote in 2016	-0.167 (0.182)	-0.312 (0.215)	-0.184 (0.246)	-0.038 (0.373)	-0.107 (0.197)	-0.096 (0.157)
R voted Leave in 2016	0.033 (0.11)	0.053 (0.114)	0.151 (0.182)	0.177 (0.197)	0.075 (0.086)	0.106 (0.085)
Incumbent campaigned to						
Remain in 2016	-0.549 (0.034)	-0.563 (0.034)	-0.52 (0.125)	-0.521 (0.141)	-0.548 (0.033)	-0.558 (0.033)
Incumbent undeclared in						
2016	-0.459 (0.11)	-0.393 (0.103)	-0.267 (0.218)	-0.342 (0.198)	-0.401 (0.096)	-0.383 (0.095)
Cons. share in 2015 by R did						
not vote in 2016	-0.043 (0.17)	0.227 (0.223)	-0.002 (0.133)	-0.203 (0.271)	-0.043 (0.078)	0 (0.144)
Cons. share in 2015 by R						
voted Leave in 2016	0.051 (0.116)	0.077 (0.132)	0.008 (0.092)	-0.008 (0.102)	0.032 (0.054)	0.04 (0.057)
Lab. share in 2015 by R did						
not vote in 2016	-0.033 (0.094)	0.159 (0.163)	-0.052 (0.179)	-0.011 (0.293)	0.026 (0.093)	0.15 (0.19)
Lab. share in 2015 by R						
voted Leave in 2016	0.151 (0.072)	0.184 (0.075)	-0.117 (0.145)	-0.093 (0.14)	0.059 (0.062)	0.077 (0.068)
UKIP share in 2015 by R did						
not vote in 2016	0.131 (0.089)	0.083 (0.127)	0.018 (0.081)	0.109 (0.152)	0.084 (0.059)	0.123 (0.096)
UKIP share in 2015 by R						
voted Leave in 2016	-0.025 (0.049)	0.012 (0.053)	0.04 (0.069)	0.025 (0.067)	0.012 (0.04)	0.026 (0.043)
Pct. aged 18-24 by R did not						
vote in 2016	0.202 (0.091)	0.275 (0.112)	-0.042 (0.056)	-0.057 (0.07)	0.01 (0.046)	0.015 (0.052)
Pct. aged 18-24 by R voted						
Leave in 2016	-0.011 (0.053)	-0.032 (0.053)	-0.045 (0.05)	-0.057 (0.05)	-0.025 (0.031)	-0.03 (0.029)

TABLE S6. Multilevel linear models of perceptions of incumbents MPs' stances on Brexit. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)

Term	Con. incumb.	Con. incumb. (*)	Lab. incumb.	Lab. incumb. (*)	All	All voters (*)
Pct. with L4+ quals by R did not vote in 2016	0.378 (0.197)	0.235 (0.331)	-0.077 (0.273)	-0.165 (0.441)	0.11 (0.149)	0.034 (0.281)
Pct. with L4+ quals by R voted Leave in 2016	0.04 (0.107)	0.028 (0.119)	0.038 (0.166)	0.063 (0.169)	0.051 (0.088)	0.072 (0.086)
Pct. nonwhite by R did not vote in 2016	-0.047 (0.122)	-0.231 (0.206)	0.082 (0.112)	0.157 (0.122)	0.057 (0.079)	0.08 (0.077)
Pct. nonwhite by R voted Leave in 2016	-0.106 (0.088)	-0.069 (0.089)	0.001 (0.078)	0.013 (0.068)	-0.057 (0.054)	-0.041 (0.046)
Pct. unemployed by R did not vote in 2016	0.049 (0.176)	0.13 (0.227)	0.007 (0.097)	-0.137 (0.1)	0.011 (0.077)	-0.037 (0.086)
Pct. unemployed by R voted Leave in 2016	0.029 (0.074)	0.043 (0.072)	0.107 (0.079)	0.12 (0.068)	0.084 (0.053)	0.1 (0.05)
Import shock by R did not vote in 2016	0.093 (0.073)	0.047 (0.074)	-0.024 (0.043)	-0.223 (0.074)	0.02 (0.036)	-0.077 (0.05)
Import shock by R voted Leave in 2016	-0.016 (0.032)	-0.02 (0.032)	-0.047 (0.036)	-0.052 (0.038)	-0.027 (0.023)	-0.032 (0.024)
Two-term incumbent by R did not vote in 2016	-0.029 (0.127)	-0.054 (0.169)	0.055 (0.155)	-0.02 (0.206)	-0.024 (0.092)	-0.03 (0.098)
Three+ term incumbent by R did not vote in 2016	-0.103 (0.101)	-0.077 (0.238)	0.095 (0.11)	-0.08 (0.168)	-0.007 (0.065)	-0.081 (0.095)
Two-term incumbent by R voted Leave in 2016	-0.096 (0.072)	-0.115 (0.072)	-0.023 (0.117)	-0.049 (0.111)	-0.059 (0.05)	-0.079 (0.052)
Three+ term incumbent by R voted Leave in 2016	-0.078 (0.108)	-0.087 (0.1)	0.064 (0.116)	0.029 (0.105)	-0.032 (0.061)	-0.058 (0.058)
Cabinet member by R did not vote in 2016	0.052 (0.138)	-0.285 (0.197)	0.086 (0.127)	-0.108 (0.215)	0.076 (0.097)	-0.166 (0.158)
Cabinet member by R voted Leave in 2016	-0.099 (0.096)	-0.104 (0.101)	-0.026 (0.099)	-0.026 (0.105)	-0.059 (0.068)	-0.066 (0.067)
2014 support for Brexit by R did not vote in 2016	0.204 (0.153)	0.098 (0.242)	-0.153 (0.275)	-0.087 (0.367)	-0.012 (0.156)	-0.017 (0.218)
2014 support for Brexit by R voted Leave in 2016	0.041 (0.098)	0.012 (0.107)	-0.062 (0.158)	-0.033 (0.165)	-0.006 (0.085)	0.006 (0.085)

TABLE S6. Multilevel linear models of perceptions of incumbents MPs' stances on Brexit. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)						
Term	Con. incumb.	Con. incumb. (*)	Lab. incumb.	Lab. incumb. (*)	All	All voters (*)
East of England by R did not vote in 2016	0.17 (0.213)	0.527 (0.218)	-0.329 (0.422)	-0.265 (0.476)	0.064 (0.214)	0.296 (0.186)
London by R did not vote in 2016	-0.11 (0.294)	0.383 (0.453)	-0.113 (0.384)	-0.096 (0.333)	-0.139 (0.278)	0.041 (0.264)
North East by R did not vote in 2016	0.56 (0.465)	0.535 (0.552)	0.306 (0.329)	0.029 (0.312)	0.336 (0.287)	0.228 (0.279)
North West by R did not vote in 2016	0.109 (0.21)	0.485 (0.27)	0.257 (0.252)	-0.081 (0.261)	0.16 (0.171)	0.133 (0.172)
Scotland by R did not vote in 2016	0.198 (1.053)	0.348 (1.122)	-0.491 (0.589)	-0.012 (0.679)	-0.414 (0.698)	0.155 (0.567)
South East by R did not vote in 2016	-0.02 (0.27)	0.39 (0.219)	0.065 (0.491)	-0.225 (0.694)	-0.041 (0.273)	0.251 (0.23)
South West by R did not vote in 2016	0.231 (0.179)	0.356 (0.215)	0.312 (0.279)	0.005 (0.513)	0.212 (0.17)	0.196 (0.207)
Wales by R did not vote in 2016	0.312 (0.26)	0.303 (0.469)	0.134 (0.257)	0.008 (0.343)	0.136 (0.19)	0.198 (0.257)
West Midlands by R did not vote in 2016	0.238 (0.178)	0.4 (0.185)	0.083 (0.256)	0.237 (0.364)	0.156 (0.181)	0.31 (0.19)
Yorks. by R did not vote in 2016	0.064 (0.299)	0.092 (0.303)	0.088 (0.202)	0.035 (0.285)	0.002 (0.173)	0.159 (0.198)
East of England by R voted Leave in 2016	0.02 (0.158)	-0.01 (0.138)	-0.217 (0.287)	-0.091 (0.272)	-0.044 (0.14)	-0.062 (0.12)
London by R voted Leave in 2016	0.055 (0.18)	0.045 (0.188)	-0.282 (0.228)	-0.393 (0.243)	-0.103 (0.151)	-0.151 (0.138)
North East by R voted Leave in 2016	0.076 (0.305)	0.162 (0.295)	-0.137 (0.179)	-0.116 (0.185)	-0.08 (0.13)	-0.044 (0.116)
North West by R voted Leave in 2016	-0.125 (0.119)	-0.107 (0.123)	-0.116 (0.161)	-0.163 (0.17)	-0.111 (0.085)	-0.129 (0.09)
Scotland by R voted Leave in 2016	0.224 (0.468)	0.216 (0.454)	0.537 (0.533)	0.52 (0.533)	0.318 (0.377)	0.339 (0.363)
South East by R voted Leave in 2016	-0.048 (0.132)	-0.026 (0.125)	-0.258 (0.31)	-0.184 (0.391)	-0.118 (0.12)	-0.108 (0.119)

MPs are minimally accountable for their issue stances

TABLE S6. Multilevel linear models of perceptions of incumbents MPs' stances on Brexit. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)

Term	Con. incumb.	Con. incumb. (*)	Lab. incumb.	Lab. incumb. (*)	All	All voters (*)
South West by R voted						
Leave in 2016	-0.002 (0.143)	0.027 (0.151)	-0.138 (0.261)	-0.273 (0.29)	-0.042 (0.138)	-0.052 (0.148)
Wales by R voted Leave in						
2016	0.042 (0.182)	0.071 (0.2)	-0.143 (0.223)	-0.186 (0.211)	-0.036 (0.147)	-0.043 (0.151)
West Midlands by R voted						
Leave in 2016	-0.029 (0.143)	-0.043 (0.149)	-0.203 (0.175)	-0.235 (0.203)	-0.082 (0.122)	-0.106 (0.132)
Yorks. by R voted Leave in						
2016	-0.216 (0.135)	-0.16 (0.143)	-0.21 (0.153)	-0.223 (0.167)	-0.178 (0.1)	-0.166 (0.112)
PTV Cons. by R did not vote						
in 2016	0.095 (0.061)	-0.022 (0.081)	-0.025 (0.066)	0.032 (0.127)	0.055 (0.036)	0.027 (0.069)
PTV Cons. by R voted Leave						
in 2016	0.195 (0.037)	0.204 (0.038)	-0.063 (0.041)	-0.065 (0.044)	0.113 (0.027)	0.119 (0.03)
PTV Lab. by R did not vote in						
2016	0.046 (0.067)	-0.045 (0.115)	-0.002 (0.063)	0.047 (0.089)	0.018 (0.04)	-0.016 (0.079)
PTV Lab. by R voted Leave						
in 2016	-0.061 (0.035)	-0.06 (0.038)	0.122 (0.051)	0.127 (0.05)	0.014 (0.031)	0.018 (0.032)
PTV LibDem by R did not						
vote in 2016	-0.056 (0.039)	-0.029 (0.079)	0.032 (0.059)	-0.008 (0.077)	-0.023 (0.028)	-0.026 (0.058)
PTV LibDem by R voted						
Leave in 2016	-0.035 (0.032)	-0.024 (0.036)	-0.006 (0.04)	-0.007 (0.038)	-0.035 (0.025)	-0.03 (0.026)
PTV UKIP by R did not vote						
in 2016	-0.012 (0.077)	0.063 (0.109)	0.012 (0.061)	-0.026 (0.098)	-0.004 (0.044)	0.016 (0.07)
PTV UKIP by R voted Leave						
in 2016	0.012 (0.036)	0.026 (0.036)	-0.081 (0.045)	-0.069 (0.047)	-0.028 (0.033)	-0.016 (0.033)
PTV Green by R did not vote						
in 2016	-0.001 (0.051)	0.048 (0.059)	0.039 (0.066)	0.073 (0.094)	0.015 (0.039)	0.059 (0.046)
PTV Green by R voted Leave						
in 2016	0.003 (0.028)	0.013 (0.03)	0.029 (0.037)	0.042 (0.041)	0.008 (0.023)	0.017 (0.027)
sd__ (Intercept)	0.187 (0.019)	0.161 (0.02)	0.206 (0.025)	0.175 (0.027)	0.196 (0.017)	0.171 (0.017)
sd__ Observation	1.157 (0.007)	1.15 (0.008)	1.156 (0.009)	1.153 (0.011)	1.161 (0.006)	1.156 (0.007)

TABLE S6. Multilevel linear models of perceptions of incumbents MPs' stances on Brexit. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)						
Term	Con. incumb.	Con. incumb. (*)	Lab. incumb.	Lab. incumb. (*)	All	All voters (*)
Labour incumbent					-0.604 (0.123)	-0.607 (0.139)
Conservative share 2015, Labour inc.					-0.1 (0.12)	-0.127 (0.108)
Labour share 2015, Labour inc.					0.06 (0.09)	0.024 (0.087)
UKIP share 2015, Labour inc.					-0.003 (0.059)	0.016 (0.056)
Pct. aged 18-24, Labour inc.					-0.026 (0.044)	-0.004 (0.041)
Pct. w/ Level 4 quals or greater, Labour inc.					0.033 (0.136)	0.087 (0.129)
Pct. non-white, Labour inc.					-0.075 (0.067)	-0.085 (0.066)
Pct. unemployed, Labour inc.					0.038 (0.067)	0.051 (0.062)
Import shock, Labour inc.					0.01 (0.035)	0.011 (0.035)
Labour incumbent has served two terms					-0.054 (0.073)	-0.056 (0.075)
Labour incumbent has served three or more terms					0.009 (0.073)	-0.009 (0.08)
Labour incumbent is (shadow) cabinet member					0.061 (0.097)	0.064 (0.096)
Const'y support for Brexit in 2014, Labour inc.					0.034 (0.122)	0.082 (0.113)
East of England, Labour inc.					-0.113 (0.172)	-0.062 (0.179)
London, Labour inc.					-0.03 (0.167)	-0.081 (0.18)
North East, Labour inc.					-0.133 (0.24)	-0.141 (0.229)

TABLE S7. Unconditional multilevel logistic regression models of incumbent vote choice using perceptions of MP position. Conservative seats only. Models with (*) are estimated only on those who voted in the 2017 general election.

Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
(Intercept)	-2.004 (0.24)	-0.744 (0.25)	-1.711 (0.21)	-0.895 (0.214)	-1.508 (0.22)	-1.097 (0.213)
Conservative share 2015	0.564 (0.207)	0.774 (0.215)	0.399 (0.153)	0.552 (0.159)	0.544 (0.193)	0.593 (0.201)
Labour share 2015	0.281 (0.162)	0.401 (0.169)	-0.003 (0.115)	0.1 (0.118)	0.423 (0.142)	0.461 (0.156)
UKIP share 2015	0.119 (0.114)	0.152 (0.13)	-0.159 (0.081)	-0.15 (0.083)	0.147 (0.107)	0.134 (0.114)
Pct. aged 18-24, 2011						
census	-0.014 (0.121)	0.009 (0.117)	-0.041 (0.087)	-0.04 (0.093)	-0.077 (0.107)	-0.059 (0.11)
Pct. w/ Level 4 qualifications						
of greater, 2011 census	-0.064 (0.239)	-0.116 (0.268)	-0.359 (0.18)	-0.378 (0.189)	-0.115 (0.244)	-0.113 (0.244)
Pct. non-white, 2011 census	0.037 (0.166)	0.143 (0.188)	0.016 (0.139)	-0.067 (0.138)	0.067 (0.164)	0.138 (0.174)
Pct. unemployed, 2011						
census	-0.034 (0.162)	-0.093 (0.175)	-0.142 (0.141)	-0.178 (0.146)	-0.058 (0.151)	-0.142 (0.158)
Import shock	0.109 (0.073)	0.047 (0.078)	-0.058 (0.053)	-0.073 (0.055)	0.097 (0.072)	0.088 (0.075)
Incumbent has served two						
terms	-0.105 (0.146)	-0.182 (0.16)	-0.037 (0.107)	-0.074 (0.111)	-0.274 (0.143)	-0.326 (0.151)
Incumbent has served three						
or more terms	-0.186 (0.144)	-0.207 (0.158)	-0.253 (0.116)	-0.255 (0.124)	-0.153 (0.147)	-0.205 (0.15)
Incumbent is (shadow)						
cabinet member	-0.08 (0.187)	-0.069 (0.203)	0.028 (0.154)	-0.076 (0.156)	-0.088 (0.19)	-0.025 (0.194)
Constituency support for						
Brexit in 2014	-0.146 (0.22)	-0.047 (0.254)	-0.179 (0.163)	-0.233 (0.165)	-0.178 (0.226)	-0.044 (0.235)
East of England	0.018 (0.231)	-0.152 (0.239)	0.084 (0.165)	0.066 (0.166)	-0.084 (0.217)	-0.169 (0.218)
London	0.309 (0.333)	0.033 (0.361)	-0.051 (0.262)	-0.105 (0.267)	0.128 (0.305)	0.05 (0.324)
North East	0.073 (0.494)	-0.168 (0.504)	-0.144 (0.419)	-0.491 (0.421)	-0.065 (0.431)	-0.207 (0.442)
North West	0.22 (0.242)	0.24 (0.256)	-0.117 (0.204)	-0.079 (0.205)	0.232 (0.237)	0.278 (0.24)
Scotland	1.466 (0.696)	1.437 (0.728)	0.177 (0.62)	0.249 (0.631)	1.02 (0.607)	1.076 (0.617)
South East	0.013 (0.213)	-0.031 (0.224)	-0.158 (0.173)	0.034 (0.169)	0.042 (0.192)	-0.013 (0.203)
South West	0.512 (0.219)	0.345 (0.234)	0.075 (0.176)	-0.007 (0.169)	0.378 (0.212)	0.343 (0.211)
Wales	0.215 (0.351)	0.168 (0.394)	-0.045 (0.278)	-0.079 (0.271)	0.149 (0.336)	0.086 (0.35)
West Midlands	0.338 (0.261)	0.198 (0.244)	0.141 (0.188)	0.091 (0.178)	0.241 (0.212)	0.172 (0.212)
Yorkshire and the Humber	0.298 (0.261)	0.128 (0.274)	-0.237 (0.214)	-0.23 (0.224)	0.109 (0.243)	0.045 (0.242)
R propensity to vote Cons.	1.878 (0.068)	1.713 (0.081)	1.45 (0.063)	1.421 (0.067)	1.759 (0.069)	1.745 (0.072)

MPs are minimally accountable for their issue stances

TABLE S7. Unconditional multilevel logistic regression models of incumbent vote choice using perceptions of MP position. Conservative seats only. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)

Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
R propensity to vote Labour	-0.598 (0.068)	-0.956 (0.066)	-0.496 (0.048)	-0.804 (0.06)	-0.717 (0.065)	-0.868 (0.072)
R propensity to vote Lib Dem	-0.195 (0.049)	-0.392 (0.05)	-0.196 (0.056)	-0.202 (0.059)	-0.317 (0.055)	-0.38 (0.053)
R propensity to vote UKIP	0.366 (0.068)	0.606 (0.081)	0.702 (0.053)	0.378 (0.056)	0.49 (0.077)	0.551 (0.083)
R propensity to vote Green	-0.411 (0.07)	-0.448 (0.061)	-0.416 (0.055)	-0.359 (0.053)	-0.406 (0.064)	-0.442 (0.063)
Perceived MP support for						
Brexit	-0.03 (0.038)	-0.106 (0.039)	0.197 (0.033)	0.221 (0.038)	0.074 (0.033)	0.062 (0.027)
sd__ (Intercept)	0.518 (0.058)	0.474 (0.084)	0.447 (0.045)	0.267 (0.08)	0.329 (0.047)	0.27 (0.055)
R did not vote in 2016					-1.978 (0.316)	-0.914 (0.416)
R voted Leave in 2016					1.023 (0.22)	1.01 (0.233)
Perceived congruence					0.154 (0.027)	0.195 (0.03)
Cons. share in 2015 by R did not vote in 2016					0.189 (0.333)	0.878 (0.482)
Cons. share in 2015 by R voted Leave in 2016					-0.171 (0.215)	-0.231 (0.241)
Lab. share in 2015 by R did not vote in 2016					-0.468 (0.269)	-0.481 (0.429)
Lab. share in 2015 by R voted Leave in 2016					-0.438 (0.16)	-0.386 (0.181)
UKIP share in 2015 by R did not vote in 2016					0.057 (0.211)	0.045 (0.268)
UKIP share in 2015 by R voted Leave in 2016					-0.379 (0.117)	-0.303 (0.129)
Pct. aged 18-24 by R did not vote in 2016					0.205 (0.207)	0.35 (0.29)

TABLE S7. Unconditional multilevel logistic regression models of incumbent vote choice using perceptions of MP position. Conservative seats only. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)

Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
Pct. aged 18-24 by R voted						
Leave in 2016					-0.011 (0.119)	-0.018 (0.133)
Pct. with L4+ quals by R did						
not vote in 2016					-0.029 (0.366)	0.031 (0.498)
Pct. with L4+ quals by R						
voted Leave in 2016					-0.381 (0.275)	-0.278 (0.284)
Pct. nonwhite by R did not						
vote in 2016					0.089 (0.299)	0.177 (0.399)
Pct. nonwhite by R voted						
Leave in 2016					-0.048 (0.2)	-0.235 (0.218)
Pct. unemployed by R did						
not vote in 2016					-0.033 (0.326)	0.24 (0.45)
Pct. unemployed by R voted						
Leave in 2016					-0.154 (0.182)	-0.096 (0.207)
Import shock by R did not						
vote in 2016					-0.019 (0.121)	-0.174 (0.165)
Import shock by R voted						
Leave in 2016					-0.221 (0.077)	-0.16 (0.082)
Two-term incumbent by R did						
not vote in 2016					0.628 (0.235)	0.814 (0.328)
Three+ term incumbent by R						
did not vote in 2016					-0.011 (0.256)	0.043 (0.341)
Two-term incumbent by R						
voted Leave in 2016					0.161 (0.162)	0.181 (0.181)
Three+ term incumbent by R						
voted Leave in 2016					-0.097 (0.169)	-0.039 (0.185)
Cabinet member by R did not						
vote in 2016					0.115 (0.412)	-0.175 (0.414)
Cabinet member by R voted						
Leave in 2016					0.065 (0.211)	0.005 (0.232)
2014 support for Brexit by R						
did not vote in 2016					-0.018 (0.35)	0.001 (0.479)

MPs are minimally accountable for their issue stances

TABLE S7. Unconditional multilevel logistic regression models of incumbent vote choice using perceptions of MP position. Conservative seats only. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)

Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
2014 support for Brexit by R						
voted Leave in 2016					-0.124 (0.248)	-0.24 (0.27)
East of England by R did not						
vote in 2016					-0.027 (0.325)	0.103 (0.442)
London by R did not vote in						
2016					0.342 (0.49)	-0.331 (0.568)
North East by R did not vote						
in 2016					-0.197 (0.742)	-0.435 (0.784)
North West by R did not vote						
in 2016					-0.098 (0.414)	-0.137 (0.512)
Scotland by R did not vote in						
2016					0.033 (0.924)	0.239 (1.002)
South East by R did not vote						
in 2016					-0.463 (0.336)	-0.091 (0.434)
South West by R did not vote						
in 2016					0.16 (0.388)	-0.158 (0.462)
Wales by R did not vote in						
2016					-0.108 (0.585)	0.056 (0.757)
West Midlands by R did not						
vote in 2016					0.319 (0.38)	-0.155 (0.5)
Yorks. by R did not vote in						
2016					0.009 (0.442)	0.527 (0.555)
East of England by R voted						
Leave in 2016					0.118 (0.238)	0.257 (0.249)
London by R voted Leave in						
2016					-0.419 (0.357)	-0.089 (0.393)
North East by R voted Leave						
in 2016					-0.347 (0.51)	-0.29 (0.545)
North West by R voted Leave						
in 2016					-0.424 (0.265)	-0.316 (0.291)
Scotland by R voted Leave in						
2016					-1.284 (0.671)	-0.996 (0.709)

TABLE S7. Unconditional multilevel logistic regression models of incumbent vote choice using perceptions of MP position. Conservative seats only. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)

Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
South East by R voted Leave in 2016					-0.191 (0.216)	0.074 (0.232)
South West by R voted Leave in 2016					-0.545 (0.229)	-0.396 (0.249)
Wales by R voted Leave in 2016					-0.342 (0.381)	-0.3 (0.399)
West Midlands by R voted Leave in 2016					-0.156 (0.239)	-0.024 (0.253)
Yorks. by R voted Leave in 2016					-0.656 (0.277)	-0.399 (0.294)
PTV Cons. by R did not vote in 2016					-0.275 (0.177)	-0.122 (0.222)
PTV Cons. by R voted Leave in 2016					-0.379 (0.086)	-0.336 (0.087)
PTV Lab. by R did not vote in 2016					0.283 (0.214)	-0.361 (0.223)
PTV Lab. by R voted Leave in 2016					0.188 (0.087)	0.107 (0.107)
PTV LibDem by R did not vote in 2016					0.095 (0.189)	0.033 (0.184)
PTV LibDem by R voted Leave in 2016					0.131 (0.07)	0.193 (0.083)
PTV UKIP by R did not vote in 2016					0.132 (0.143)	0.261 (0.218)
PTV UKIP by R voted Leave in 2016					-0.165 (0.088)	-0.314 (0.092)
PTV Green by R did not vote in 2016					-0.119 (0.2)	0.001 (0.221)
PTV Green by R voted Leave in 2016					0.091 (0.103)	0.101 (0.08)
Number of obs.	7941	7017	8997	7830	15819	14351

MPs are minimally accountable for their issue stances

TABLE S7. Unconditional multilevel logistic regression models of incumbent vote choice using perceptions of MP position. Conservative seats only. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)

Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
Number of groups	315	315	315	315	315	315
SD, random area intercept	0.518	0.474	0.447	0.267	0.329	0.27

TABLE S8. Unconditional multilevel logistic regression models of incumbent vote choice using perceptions of MP position. Labour seats only. Models with (*) are estimated only on those who voted in the 2017 general election.						
Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
(Intercept)	-0.792 (0.296)	0.835 (0.316)	-1.847 (0.313)	-0.878 (0.378)	0.002 (0.27)	0.54 (0.296)
Conservative share 2015	0.174 (0.185)	0.476 (0.206)	-0.052 (0.211)	0.021 (0.253)	0.316 (0.187)	0.497 (0.201)
Labour share 2015	0.428 (0.22)	0.623 (0.253)	0.388 (0.229)	0.448 (0.274)	0.317 (0.24)	0.504 (0.251)
UKIP share 2015	-0.09 (0.12)	0.169 (0.145)	-0.116 (0.125)	0.048 (0.147)	0.17 (0.138)	0.187 (0.148)
Pct. aged 18-24, 2011						
census	0.064 (0.075)	0.036 (0.081)	0.073 (0.081)	0.008 (0.094)	0.001 (0.077)	0.037 (0.086)
Pct. w/ Level 4 qualifications						
of greater, 2011 census	0.154 (0.257)	-0.048 (0.299)	0.132 (0.274)	0.132 (0.328)	-0.154 (0.259)	-0.181 (0.29)
Pct. non-white, 2011 census	-0.126 (0.108)	0.062 (0.127)	-0.224 (0.111)	-0.048 (0.134)	0.059 (0.112)	0.037 (0.126)
Pct. unemployed, 2011						
census	-0.047 (0.119)	-0.141 (0.135)	-0.033 (0.119)	-0.045 (0.137)	-0.087 (0.131)	-0.131 (0.142)
Import shock	0.075 (0.067)	0.097 (0.08)	0.075 (0.074)	0.079 (0.089)	0.069 (0.073)	0.043 (0.079)
Incumbent has served two						
terms	-0.354 (0.189)	-0.48 (0.214)	-0.12 (0.196)	-0.108 (0.23)	-0.507 (0.189)	-0.502 (0.211)
Incumbent has served three						
or more terms	-0.227 (0.166)	-0.36 (0.188)	0.027 (0.178)	0.012 (0.205)	-0.234 (0.174)	-0.285 (0.185)
Incumbent is (shadow)						
cabinet member	-0.226 (0.194)	-0.258 (0.213)	-0.283 (0.196)	-0.217 (0.234)	-0.148 (0.2)	-0.294 (0.22)
Constituency support for						
Brexit in 2014	0.158 (0.248)	-0.083 (0.288)	0.193 (0.258)	0.052 (0.3)	-0.181 (0.252)	-0.118 (0.28)
East of England	-0.401 (0.458)	-0.513 (0.47)	0.156 (0.452)	0.161 (0.501)	-0.427 (0.415)	-0.399 (0.445)
London	0.102 (0.341)	-0.038 (0.361)	0.269 (0.359)	-0.024 (0.402)	0.036 (0.342)	0.164 (0.353)
North East	0.014 (0.326)	0.174 (0.335)	-0.384 (0.31)	-0.143 (0.333)	0.171 (0.3)	0.155 (0.322)
North West	0.003 (0.268)	0.246 (0.281)	-0.224 (0.266)	-0.064 (0.285)	0.116 (0.262)	0.292 (0.279)
Scotland	-0.162 (0.646)	0.176 (0.648)	-0.114 (0.701)	0.386 (0.775)	0.411 (0.608)	0.438 (0.627)
South East	0.327 (0.551)	-0.068 (0.558)	-0.624 (0.608)	-0.91 (0.689)	0.408 (0.511)	0.038 (0.534)
South West	0.269 (0.449)	0.432 (0.459)	-0.623 (0.499)	-0.332 (0.578)	0.359 (0.411)	0.435 (0.441)
Wales	0.178 (0.304)	-0.01 (0.317)	-0.209 (0.318)	-0.276 (0.351)	-0.089 (0.292)	-0.062 (0.319)
West Midlands	0.019 (0.308)	0.036 (0.318)	-0.064 (0.307)	-0.088 (0.349)	0.05 (0.302)	0.13 (0.313)
Yorkshire and the Humber	0.119 (0.272)	0.016 (0.294)	0.014 (0.285)	0.062 (0.302)	0.11 (0.267)	0.109 (0.283)
R propensity to vote Cons.	-0.604 (0.059)	-1.059 (0.087)	-0.752 (0.062)	-1.136 (0.092)	-0.83 (0.084)	-0.99 (0.089)

MPs are minimally accountable for their issue stances

TABLE S8. Unconditional multilevel logistic regression models of incumbent vote choice using perceptions of MP position. Labour seats only. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)

Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
R propensity to vote Labour	1.697 (0.096)	1.609 (0.095)	1.461 (0.094)	1.415 (0.093)	1.554 (0.079)	1.648 (0.112)
R propensity to vote Lib Dem	-0.18 (0.061)	-0.456 (0.07)	-0.102 (0.061)	-0.126 (0.105)	-0.397 (0.072)	-0.486 (0.07)
R propensity to vote UKIP	-0.461 (0.079)	-0.235 (0.136)	-0.093 (0.055)	-0.617 (0.073)	-0.292 (0.088)	-0.248 (0.113)
R propensity to vote Green	0.261 (0.075)	0.197 (0.07)	0.164 (0.077)	0.32 (0.083)	0.212 (0.089)	0.196 (0.075)
Perceived MP support for						
Brexit	-0.024 (0.046)	-0.092 (0.052)	0.113 (0.039)	0.13 (0.052)	0.026 (0.031)	-0.01 (0.039)
sd__ (Intercept)	0.616 (0.06)	0.583 (0.084)	0.684 (0.06)	0.747 (0.082)	0.522 (0.046)	0.539 (0.056)
R did not vote in 2016					-1.904 (0.371)	-0.477 (0.498)
R voted Leave in 2016					-1.137 (0.289)	-1.129 (0.326)
Perceived congruence					0.111 (0.041)	0.13 (0.039)
Cons. share in 2015 by R did not vote in 2016					-0.272 (0.257)	-0.231 (0.437)
Cons. share in 2015 by R voted Leave in 2016					-0.4 (0.23)	-0.471 (0.255)
Lab. share in 2015 by R did not vote in 2016					0.207 (0.289)	0.407 (0.48)
Lab. share in 2015 by R voted Leave in 2016					-0.143 (0.277)	-0.21 (0.292)
UKIP share in 2015 by R did not vote in 2016					-0.435 (0.171)	0.044 (0.269)
UKIP share in 2015 by R voted Leave in 2016					-0.201 (0.148)	-0.154 (0.165)
Pct. aged 18-24 by R did not vote in 2016					0.228 (0.1)	0.08 (0.185)

TABLE S8. Unconditional multilevel logistic regression models of incumbent vote choice using perceptions of MP position. Labour seats only. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)						
Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
Pct. aged 18-24 by R voted						
Leave in 2016					-0.048 (0.096)	-0.114 (0.103)
Pct. with L4+ quals by R did not vote in 2016					0.665 (0.343)	1.118 (0.501)
Pct. with L4+ quals by R voted Leave in 2016					0.078 (0.299)	0.125 (0.328)
Pct. nonwhite by R did not vote in 2016					-0.264 (0.141)	0.077 (0.251)
Pct. nonwhite by R voted Leave in 2016					-0.271 (0.13)	-0.173 (0.14)
Pct. unemployed by R did not vote in 2016					0.253 (0.169)	0.202 (0.243)
Pct. unemployed by R voted Leave in 2016					-0.037 (0.145)	0.065 (0.161)
Import shock by R did not vote in 2016					0.073 (0.095)	0.363 (0.192)
Import shock by R voted Leave in 2016					-0.081 (0.083)	-0.039 (0.094)
Two-term incumbent by R did not vote in 2016					0.153 (0.263)	0.287 (0.492)
Three+ term incumbent by R did not vote in 2016					0.077 (0.214)	-0.108 (0.364)
Two-term incumbent by R voted Leave in 2016					0.532 (0.22)	0.434 (0.25)
Three+ term incumbent by R voted Leave in 2016					0.392 (0.196)	0.364 (0.219)
Cabinet member by R did not vote in 2016					-0.072 (0.251)	0.513 (0.531)
Cabinet member by R voted Leave in 2016					-0.226 (0.263)	-0.008 (0.273)
2014 support for Brexit by R did not vote in 2016					0.63 (0.325)	0.392 (0.502)

MPs are minimally accountable for their issue stances

TABLE S8. Unconditional multilevel logistic regression models of incumbent vote choice using perceptions of MP position. Labour seats only. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)						
Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
South East by R voted Leave in 2016					-0.767 (0.613)	-0.282 (0.663)
South West by R voted Leave in 2016					-1.049 (0.506)	-0.909 (0.555)
Wales by R voted Leave in 2016					-0.42 (0.315)	-0.367 (0.346)
West Midlands by R voted Leave in 2016					-0.012 (0.323)	-0.179 (0.355)
Yorks. by R voted Leave in 2016					-0.047 (0.277)	0.043 (0.315)
PTV Cons. by R did not vote in 2016					0.176 (0.131)	-0.571 (0.268)
PTV Cons. by R voted Leave in 2016					0.011 (0.103)	-0.037 (0.107)
PTV Lab. by R did not vote in 2016					-0.127 (0.176)	0.046 (0.284)
PTV Lab. by R voted Leave in 2016					-0.142 (0.1)	-0.238 (0.112)
PTV LibDem by R did not vote in 2016					0.375 (0.095)	0.298 (0.258)
PTV LibDem by R voted Leave in 2016					0.29 (0.119)	0.341 (0.118)
PTV UKIP by R did not vote in 2016					0.14 (0.139)	-0.254 (0.365)
PTV UKIP by R voted Leave in 2016					0.028 (0.11)	-0.188 (0.137)
PTV Green by R did not vote in 2016					-0.109 (0.1)	0.219 (0.235)
PTV Green by R voted Leave in 2016					0.028 (0.1)	0.063 (0.125)
Number of obs.	5420	4728	4863	3984	9370	8322

MPs are minimally accountable for their issue stances

TABLE S8. Unconditional multilevel logistic regression models of incumbent vote choice using perceptions of MP position. Labour seats only. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)						
Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
Number of groups	209	209	209	209	209	209
SD, random area intercept	0.616	0.583	0.684	0.747	0.522	0.539

TABLE S9. Unconditional multilevel logistic regression models of incumbent vote choice using perceptions of MP position. All seats. Models with (*) are estimated only on those who voted in the 2017 general election.

Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
(Intercept)	-1.947 (0.227)	-0.696 (0.24)	-1.595 (0.201)	-0.757 (0.217)	-1.065 (0.193)	-0.708 (0.191)
Conservative share 2015	0.532 (0.207)	0.749 (0.209)	0.381 (0.164)	0.527 (0.18)	0.46 (0.162)	0.544 (0.167)
Labour share 2015	0.282 (0.161)	0.408 (0.17)	-0.009 (0.125)	0.093 (0.133)	0.499 (0.128)	0.608 (0.144)
UKIP share 2015	0.105 (0.115)	0.148 (0.131)	-0.164 (0.088)	-0.15 (0.094)	0.202 (0.093)	0.157 (0.102)
Pct. aged 18-24, 2011 census	-0.015 (0.121)	0.003 (0.12)	-0.033 (0.095)	-0.026 (0.104)	-0.029 (0.086)	0.011 (0.09)
Pct. w/ Level 4 qualifications of greater, 2011 census	-0.041 (0.234)	-0.108 (0.252)	-0.329 (0.193)	-0.33 (0.208)	-0.158 (0.206)	-0.155 (0.218)
Pct. non-white, 2011 census	0.029 (0.166)	0.142 (0.182)	-0.003 (0.149)	-0.064 (0.157)	0.164 (0.132)	0.101 (0.145)
Pct. unemployed, 2011 census	-0.027 (0.162)	-0.093 (0.173)	-0.133 (0.149)	-0.17 (0.155)	-0.137 (0.125)	-0.207 (0.135)
Import shock	0.103 (0.073)	0.043 (0.077)	-0.059 (0.058)	-0.076 (0.062)	0.063 (0.062)	0.05 (0.067)
Incumbent has served two terms	-0.12 (0.149)	-0.206 (0.158)	-0.035 (0.117)	-0.068 (0.127)	-0.405 (0.125)	-0.469 (0.135)
Incumbent has served three or more terms	-0.191 (0.148)	-0.219 (0.159)	-0.25 (0.126)	-0.249 (0.139)	-0.26 (0.129)	-0.285 (0.139)
Incumbent is (shadow) cabinet member	-0.068 (0.19)	-0.067 (0.21)	0.022 (0.166)	-0.09 (0.176)	0.009 (0.167)	-0.066 (0.174)
Constituency support for Brexit in 2014	-0.115 (0.214)	-0.038 (0.241)	-0.147 (0.175)	-0.185 (0.186)	-0.218 (0.193)	-0.084 (0.206)
East of England	-0.03 (0.22)	-0.19 (0.229)	0.074 (0.17)	0.055 (0.185)	-0.138 (0.206)	-0.201 (0.211)
London	0.256 (0.318)	-0.007 (0.337)	-0.049 (0.274)	-0.13 (0.29)	-0.085 (0.274)	0.038 (0.292)
North East	0.046 (0.46)	-0.114 (0.465)	-0.181 (0.407)	-0.429 (0.423)	0.247 (0.371)	-0.031 (0.376)
North West	0.17 (0.24)	0.206 (0.255)	-0.138 (0.213)	-0.091 (0.227)	0.305 (0.214)	0.349 (0.229)
Scotland	1.048 (0.628)	1.163 (0.64)	0.088 (0.582)	0.336 (0.607)	0.852 (0.557)	0.959 (0.563)
South East	-0.023 (0.205)	-0.059 (0.216)	-0.181 (0.179)	0.005 (0.186)	0.017 (0.183)	0.012 (0.2)
South West	0.462 (0.212)	0.312 (0.227)	0.048 (0.179)	-0.028 (0.187)	0.423 (0.201)	0.383 (0.209)
Wales	0.166 (0.343)	0.124 (0.364)	-0.067 (0.285)	-0.081 (0.292)	0.309 (0.282)	0.271 (0.301)
West Midlands	0.293 (0.245)	0.165 (0.236)	0.126 (0.191)	0.08 (0.195)	0.326 (0.196)	0.276 (0.202)
Yorkshire and the Humber	0.245 (0.255)	0.091 (0.265)	-0.246 (0.222)	-0.238 (0.244)	0.022 (0.218)	-0.019 (0.225)
R propensity to vote Cons.	1.884 (0.068)	1.716 (0.082)	1.462 (0.063)	1.443 (0.068)	1.612 (0.055)	1.68 (0.066)

TABLE S9. Unconditional multilevel logistic regression models of incumbent vote choice using perceptions of MP position. All seats. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)

Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
R propensity to vote Labour	-0.596 (0.068)	-0.954 (0.067)	-0.498 (0.047)	-0.812 (0.061)	-0.625 (0.051)	-0.809 (0.059)
R propensity to vote Lib Dem	-0.199 (0.05)	-0.394 (0.05)	-0.198 (0.057)	-0.203 (0.059)	-0.365 (0.051)	-0.417 (0.051)
R propensity to vote UKIP	0.368 (0.068)	0.607 (0.08)	0.704 (0.054)	0.383 (0.057)	0.459 (0.061)	0.569 (0.062)
R propensity to vote Green	-0.414 (0.071)	-0.452 (0.059)	-0.418 (0.055)	-0.362 (0.053)	-0.407 (0.054)	-0.458 (0.061)
Labour incumbent	1.022 (0.302)	1.405 (0.313)	-0.307 (0.297)	-0.166 (0.314)	0.345 (0.253)	0.408 (0.249)
Perceived MP support for						
Brexit	-0.028 (0.033)	-0.102 (0.033)	0.168 (0.029)	0.188 (0.031)	0.057 (0.026)	0.038 (0.021)
Conservative share 2015,						
Labour inc.	-0.319 (0.252)	-0.216 (0.273)	-0.409 (0.25)	-0.449 (0.271)	-0.291 (0.198)	-0.231 (0.206)
Labour share 2015, Labour						
inc.	0.205 (0.271)	0.308 (0.3)	0.4 (0.242)	0.388 (0.264)	0.183 (0.202)	0.246 (0.225)
UKIP share 2015, Labour						
inc.	-0.173 (0.168)	0.055 (0.195)	0.043 (0.138)	0.204 (0.154)	0.054 (0.124)	0.15 (0.133)
Pct. aged 18-24, Labour inc.	0.085 (0.143)	0.041 (0.137)	0.102 (0.12)	0.032 (0.128)	0.061 (0.095)	0.046 (0.099)
Pct. w/ Level 4 quals or						
greater, Labour inc.	0.189 (0.322)	0.053 (0.365)	0.439 (0.301)	0.447 (0.329)	0.271 (0.247)	0.244 (0.273)
Pct. non-white, Labour inc.	-0.154 (0.19)	-0.076 (0.221)	-0.22 (0.174)	0.01 (0.184)	-0.138 (0.139)	-0.067 (0.157)
Pct. unemployed, Labour inc.	-0.02 (0.204)	-0.048 (0.218)	0.1 (0.182)	0.137 (0.185)	0.051 (0.142)	0.084 (0.149)
Import shock, Labour inc.	-0.017 (0.096)	0.061 (0.102)	0.123 (0.087)	0.145 (0.094)	0.034 (0.071)	0.037 (0.077)
Labour incumbent has						
served two terms	-0.229 (0.225)	-0.286 (0.255)	-0.085 (0.205)	-0.034 (0.225)	-0.125 (0.167)	-0.081 (0.181)
Labour incumbent has						
served three or more terms	-0.033 (0.211)	-0.148 (0.231)	0.261 (0.199)	0.247 (0.218)	0.115 (0.165)	0.074 (0.172)

TABLE S9. Unconditional multilevel logistic regression models of incumbent vote choice using perceptions of MP position. All seats. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)						
Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
Labour incumbent is						
(shadow) cabinet member	-0.162 (0.265)	-0.205 (0.292)	-0.303 (0.236)	-0.143 (0.252)	-0.22 (0.192)	-0.23 (0.199)
Const'y support for Brexit in						
2014, Labour inc.	0.26 (0.313)	-0.065 (0.339)	0.317 (0.28)	0.2 (0.301)	0.213 (0.231)	0.13 (0.249)
East of England, Labour inc.	-0.237 (0.483)	-0.204 (0.476)	0.056 (0.426)	0.069 (0.446)	-0.074 (0.352)	0.041 (0.366)
London, Labour inc.	-0.029 (0.425)	0.072 (0.452)	0.292 (0.394)	0.044 (0.415)	0.199 (0.344)	0.149 (0.355)
North East, Labour inc.	0.072 (0.517)	0.381 (0.513)	-0.255 (0.473)	0.198 (0.478)	0.053 (0.397)	0.325 (0.42)
North West, Labour inc.	-0.059 (0.337)	0.136 (0.343)	-0.142 (0.301)	-0.051 (0.314)	-0.11 (0.249)	-0.011 (0.262)
Scotland, Labour inc.	-0.741 (0.731)	-0.433 (0.741)	-0.213 (0.732)	0.232 (0.771)	0.147 (0.668)	0.152 (0.668)
South East, Labour inc.	0.452 (0.537)	0.073 (0.557)	-0.57 (0.581)	-1.052 (0.639)	0.226 (0.45)	0.034 (0.477)
South West, Labour inc.	-0.003 (0.46)	0.301 (0.471)	-0.727 (0.469)	-0.315 (0.523)	-0.118 (0.367)	0.168 (0.381)
Wales, Labour inc.	0.148 (0.413)	0.017 (0.444)	-0.174 (0.374)	-0.215 (0.395)	-0.14 (0.314)	-0.121 (0.333)
West Midlands, Labour inc.	-0.164 (0.39)	-0.032 (0.36)	-0.236 (0.331)	-0.24 (0.342)	-0.228 (0.285)	-0.166 (0.282)
Yorkshire and the Humber,						
Labour inc.	-0.014 (0.342)	0.034 (0.356)	0.209 (0.311)	0.224 (0.322)	0.281 (0.269)	0.259 (0.275)
R propensity to vote Cons.,						
Labour inc.	-2.48 (0.096)	-2.762 (0.142)	-2.199 (0.095)	-2.537 (0.13)	-2.327 (0.089)	-2.591 (0.108)
R propensity to vote Labour,						
Labour inc.	2.284 (0.12)	2.551 (0.122)	1.939 (0.115)	2.18 (0.124)	2.044 (0.085)	2.326 (0.098)
R propensity to vote Lib Dem,						
Labour inc.	0.019 (0.079)	-0.059 (0.088)	0.098 (0.092)	0.077 (0.142)	0.047 (0.07)	0.008 (0.088)
R propensity to vote UKIP,						
Labour inc.	-0.828 (0.077)	-0.84 (0.141)	-0.795 (0.071)	-0.978 (0.073)	-0.739 (0.051)	-0.848 (0.063)

MPs are minimally accountable for their issue stances

TABLE S9. Unconditional multilevel logistic regression models of incumbent vote choice using perceptions of MP position. All seats. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)						
Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
Pct. nonwhite by R voted						
Leave in 2016					-0.223 (0.097)	-0.198 (0.109)
Pct. unemployed by R did not vote in 2016					0.159 (0.147)	0.128 (0.185)
Pct. unemployed by R voted						
Leave in 2016					-0.034 (0.104)	0.039 (0.123)
Import shock by R did not vote in 2016					0.025 (0.075)	0.043 (0.11)
Import shock by R voted						
Leave in 2016					-0.167 (0.054)	-0.115 (0.061)
Two-term incumbent by R did not vote in 2016					0.449 (0.182)	0.796 (0.239)
Three+ term incumbent by R did not vote in 2016					0.12 (0.169)	0.143 (0.22)
Two-term incumbent by R voted Leave in 2016					0.439 (0.121)	0.445 (0.138)
Three+ term incumbent by R voted Leave in 2016					0.067 (0.118)	0.077 (0.134)
Cabinet member by R did not vote in 2016					-0.015 (0.206)	0.103 (0.313)
Cabinet member by R voted						
Leave in 2016					-0.084 (0.167)	0.018 (0.184)
2014 support for Brexit by R did not vote in 2016					0.256 (0.237)	0.267 (0.361)
2014 support for Brexit by R voted Leave in 2016					-0.051 (0.183)	-0.175 (0.203)
East of England by R did not vote in 2016					-0.086 (0.29)	0.171 (0.362)
London by R did not vote in 2016					0.194 (0.309)	-0.155 (0.401)
North East by R did not vote in 2016					-0.642 (0.335)	0.281 (0.469)

MPs are minimally accountable for their issue stances

TABLE S9. Unconditional multilevel logistic regression models of incumbent vote choice using perceptions of MP position. All seats. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)

Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
North West by R did not vote in 2016					-0.271 (0.286)	-0.091 (0.385)
Scotland by R did not vote in 2016					-1.254 (0.665)	-0.666 (0.803)
South East by R did not vote in 2016					-0.519 (0.283)	-0.05 (0.364)
South West by R did not vote in 2016					-0.237 (0.304)	-0.154 (0.393)
Wales by R did not vote in 2016					0.125 (0.364)	0.43 (0.454)
West Midlands by R did not vote in 2016					-0.046 (0.266)	-0.244 (0.394)
Yorks. by R did not vote in 2016					-0.33 (0.257)	-0.186 (0.353)
East of England by R voted Leave in 2016					0.213 (0.21)	0.284 (0.23)
London by R voted Leave in 2016					0.015 (0.26)	-0.047 (0.288)
North East by R voted Leave in 2016					-0.915 (0.247)	-0.703 (0.282)
North West by R voted Leave in 2016					-0.58 (0.195)	-0.512 (0.22)
Scotland by R voted Leave in 2016					-0.647 (0.588)	-0.506 (0.624)
South East by R voted Leave in 2016					-0.158 (0.193)	0.034 (0.213)
South West by R voted Leave in 2016					-0.596 (0.201)	-0.457 (0.228)
Wales by R voted Leave in 2016					-0.647 (0.234)	-0.561 (0.269)
West Midlands by R voted Leave in 2016					-0.235 (0.195)	-0.161 (0.217)

TABLE S9. Unconditional multilevel logistic regression models of incumbent vote choice using perceptions of MP position. All seats. Models with (*) are estimated only on those who voted in the 2017 general election. (cont.)

Term	Voted Remain	Voted Remain(*)	Voted Leave	Voted Leave(*)	All	All(*)
Yorks. by R voted Leave in						
2016					-0.468 (0.199)	-0.222 (0.226)
PTV Cons. by R did not vote						
in 2016					-0.042 (0.108)	-0.308 (0.118)
PTV Cons. by R voted Leave						
in 2016					-0.173 (0.067)	-0.209 (0.071)
PTV Lab. by R did not vote in						
2016					0.048 (0.139)	-0.224 (0.154)
PTV Lab. by R voted Leave						
in 2016					0.04 (0.061)	-0.016 (0.076)
PTV LibDem by R did not						
vote in 2016					0.252 (0.091)	0.144 (0.111)
PTV LibDem by R voted						
Leave in 2016					0.191 (0.055)	0.241 (0.063)
PTV UKIP by R did not vote						
in 2016					0.121 (0.104)	0.005 (0.182)
PTV UKIP by R voted Leave						
in 2016					-0.077 (0.056)	-0.274 (0.064)
PTV Green by R did not vote						
in 2016					-0.097 (0.104)	0.099 (0.123)
PTV Green by R voted Leave						
in 2016					0.068 (0.083)	0.092 (0.079)
Number of obs.	13361	11745	13860	11814	25189	22673
Number of groups	524	524	524	524	524	524
SD, random area intercept	0.572	0.533	0.541	0.481	0.42	0.392

TABLE S10. Unconditional multilevel logistic regression models of incumbent vote choice, Conservative seats only, using Heppell scores.

Term	No Heppell	With Heppell
(Intercept)	-1.444 (0.207)	-1.605 (0.218)
Conservative share 2015	0.262 (0.238)	0.213 (0.239)
Labour share 2015	0.235 (0.183)	0.225 (0.184)
UKIP share 2015	0.006 (0.128)	-0.012 (0.127)
Pct. aged 18-24, 2011 census	-0.159 (0.12)	-0.171 (0.118)
Pct. w/ Level 4 qualifications of greater, 2011 census	-0.229 (0.23)	-0.213 (0.23)
Pct. non-white, 2011 census	0.082 (0.167)	0.045 (0.17)
Pct. unemployed, 2011 census	-0.021 (0.165)	-0.023 (0.164)
Import shock	0.072 (0.071)	0.068 (0.074)
Incumbent has served three or more terms	0.074 (0.115)	0.163 (0.125)
Incumbent is (shadow) cabinet member	-0.144 (0.177)	-0.059 (0.182)
Constituency support for Brexit in 2014	-0.182 (0.21)	-0.143 (0.212)
East of England	-0.365 (0.217)	-0.363 (0.217)
London	0.273 (0.324)	0.314 (0.327)
North East	0.223 (0.435)	0.233 (0.448)
North West	0.37 (0.243)	0.372 (0.243)
Scotland	1.218 (0.563)	1.184 (0.566)
South East	0.026 (0.207)	0.052 (0.208)
South West	0.205 (0.209)	0.149 (0.208)
Wales	0.229 (0.315)	0.22 (0.315)
West Midlands	0.07 (0.214)	0.126 (0.216)
Yorkshire and the Humber	0.197 (0.246)	0.188 (0.241)
R propensity to vote Cons.	1.714 (0.071)	1.727 (0.072)
R propensity to vote Labour	-0.755 (0.072)	-0.76 (0.072)

TABLE S10. Unconditional multilevel logistic regression models of incumbent vote choice, Conservative seats only, using Heppell scores. (cont.)

Term	No Heppell	With Heppell
R propensity to vote Lib Dem	-0.339 (0.056)	-0.34 (0.056)
R propensity to vote UKIP	0.481 (0.085)	0.485 (0.085)
R propensity to vote Green	-0.349 (0.06)	-0.346 (0.06)
R did not vote in 2016	-1.074 (0.386)	-0.912 (0.404)
R voted Leave in 2016	1.101 (0.232)	1.303 (0.244)
Incumbent campaigned to Remain in 2016	0.007 (0.071)	0 (0.08)
Incumbent undeclared in 2016	-0.025 (0.207)	-0.023 (0.212)
Congruence	0.042 (0.068)	0.023 (0.075)
Cons. share in 2015 by R did not vote in 2016	0.266 (0.508)	0.349 (0.518)
Cons. share in 2015 by R voted Leave in 2016	0.076 (0.279)	0.132 (0.284)
Lab. share in 2015 by R did not vote in 2016	-0.41 (0.435)	-0.429 (0.437)
Lab. share in 2015 by R voted Leave in 2016	-0.321 (0.219)	-0.308 (0.222)
UKIP share in 2015 by R did not vote in 2016	-0.129 (0.293)	-0.15 (0.294)
UKIP share in 2015 by R voted Leave in 2016	-0.231 (0.149)	-0.203 (0.149)
Pct. aged 18-24 by R did not vote in 2016	0.244 (0.283)	0.282 (0.286)
Pct. aged 18-24 by R voted Leave in 2016	0.169 (0.139)	0.185 (0.139)

TABLE S10. Unconditional multilevel logistic regression models of incumbent vote choice, Conservative seats only, using Heppell scores. (cont.)

Term	No Heppell	With Heppell
Pct. with L4+ quals by R did not vote in 2016	0.017 (0.478)	-0.01 (0.486)
Pct. with L4+ quals by R voted Leave in 2016	-0.228 (0.285)	-0.238 (0.285)
Pct. nonwhite by R did not vote in 2016	-0.455 (0.375)	-0.453 (0.37)
Pct. nonwhite by R voted Leave in 2016	0.011 (0.208)	0.058 (0.212)
Pct. unemployed by R did not vote in 2016	0.19 (0.399)	0.215 (0.401)
Pct. unemployed by R voted Leave in 2016	-0.121 (0.209)	-0.117 (0.207)
Import shock by R did not vote in 2016	0.028 (0.161)	0.034 (0.166)
Import shock by R voted Leave in 2016	-0.142 (0.083)	-0.136 (0.086)
Three+ term incumbent by R did not vote in 2016	-0.337 (0.282)	-0.474 (0.292)
Three+ term incumbent by R voted Leave in 2016	-0.123 (0.14)	-0.227 (0.15)
Cabinet member by R did not vote in 2016	0.289 (0.425)	0.2 (0.434)
Cabinet member by R voted Leave in 2016	0.173 (0.213)	0.076 (0.217)
2014 support for Brexit by R did not vote in 2016	0.183 (0.443)	0.176 (0.45)
2014 support for Brexit by R voted Leave in 2016	-0.033 (0.247)	-0.077 (0.248)
East of England by R did not vote in 2016	0.035 (0.414)	0.057 (0.416)
London by R did not vote in 2016	0.327 (0.59)	0.379 (0.591)

TABLE S10. Unconditional multilevel logistic regression models of incumbent vote choice, Conservative seats only, using Heppell scores. (cont.)

Term	No Heppell	With Heppell
North East by R did not vote in 2016	-0.2 (0.823)	-0.199 (0.826)
North West by R did not vote in 2016	-0.464 (0.525)	-0.438 (0.535)
Scotland by R did not vote in 2016	0.573 (0.913)	0.566 (0.922)
South East by R did not vote in 2016	-0.403 (0.409)	-0.416 (0.41)
South West by R did not vote in 2016	0.009 (0.432)	0.068 (0.431)
Wales by R did not vote in 2016	-0.451 (0.67)	-0.443 (0.672)
West Midlands by R did not vote in 2016	0.21 (0.43)	0.154 (0.436)
Yorks. by R did not vote in 2016	0.017 (0.539)	0.078 (0.55)
East of England by R voted Leave in 2016	0.209 (0.249)	0.213 (0.249)
London by R voted Leave in 2016	-0.577 (0.388)	-0.629 (0.39)
North East by R voted Leave in 2016	0.249 (0.577)	0.245 (0.578)
North West by R voted Leave in 2016	-0.269 (0.287)	-0.266 (0.291)
Scotland by R voted Leave in 2016	-1.19 (0.656)	-1.144 (0.667)
South East by R voted Leave in 2016	-0.152 (0.243)	-0.18 (0.242)
South West by R voted Leave in 2016	-0.286 (0.248)	-0.217 (0.245)
Wales by R voted Leave in 2016	-0.272 (0.372)	-0.256 (0.372)

TABLE S10. Unconditional multilevel logistic regression models of incumbent vote choice, Conservative seats only, using Heppell scores. (cont.)

Term	No Heppell	With Heppell
West Midlands by R voted Leave in 2016	0.034 (0.257)	-0.033 (0.26)
Yorks. by R voted Leave in 2016	-0.345 (0.29)	-0.335 (0.288)
PTV Cons. by R did not vote in 2016	-0.347 (0.188)	-0.348 (0.187)
PTV Cons. by R voted Leave in 2016	-0.28 (0.092)	-0.292 (0.092)
PTV Lab. by R did not vote in 2016	0.178 (0.226)	0.171 (0.231)
PTV Lab. by R voted Leave in 2016	0.147 (0.095)	0.151 (0.095)
PTV LibDem by R did not vote in 2016	0.188 (0.199)	0.187 (0.203)
PTV LibDem by R voted Leave in 2016	0.166 (0.07)	0.168 (0.07)
PTV UKIP by R did not vote in 2016	0.1 (0.197)	0.104 (0.198)
PTV UKIP by R voted Leave in 2016	-0.257 (0.097)	-0.26 (0.097)
PTV Green by R did not vote in 2016	-0.091 (0.226)	-0.088 (0.226)
PTV Green by R voted Leave in 2016	0.065 (0.085)	0.062 (0.084)
sd__(Intercept)	0.191 (0.062)	0.194 (0.062)
Heppell: Europhile (cat. 1)		0.705 (0.356)
Heppell: Agnostic (cat. 2)		0.326 (0.144)
Heppell: Hard Euroskeptic (cat. 4)		0.142 (0.14)

TABLE S10. Unconditional multilevel logistic regression models of incumbent vote choice, Conservative seats only, using Heppell scores. (cont.)		
Term	No Heppell	With Heppell
R did not vote in 2016 by Heppell cat. 1		0.09 (0.731)
R voted Leave in 2016 by Heppell cat. 1		-0.904 (0.416)
R did not vote in 2016 by Heppell cat. 2		-0.484 (0.352)
R voted Leave in 2016 by Heppell cat. 2		-0.387 (0.172)
R did not vote in 2016 by Heppell cat. 4		-0.259 (0.321)
R voted Leave in 2016 by Heppell cat. 4		-0.152 (0.166)
Number of obs.	11857	11857
Number of groups	238	238
SD, random area intercept	0.191	0.194

MPs are minimally accountable for their issue stances

TABLE S11. Unconditional multilevel logistic regression models of perception of MP Brexit stance, Conservative seats only, using Heppell scores.

Term	No Heppell	With Heppell
(Intercept)	3.626 (0.104)	3.633 (0.108)
Conservative share 2015	0.062 (0.113)	0.054 (0.112)
Labour share 2015	-0.188 (0.079)	-0.182 (0.08)
UKIP share 2015	0.002 (0.053)	0.017 (0.054)
Pct. aged 18-24, 2011 census	-0.013 (0.048)	-0.014 (0.048)
Pct. w/ Level 4 qualifications of greater, 2011 census	-0.162 (0.118)	-0.152 (0.119)
Pct. non-white, 2011 census	0.071 (0.073)	0.09 (0.073)
Pct. unemployed, 2011 census	0.022 (0.068)	0.019 (0.067)
Import shock	0.022 (0.03)	0.016 (0.03)
Incumbent has served three or more terms	0.038 (0.046)	0.033 (0.047)
Incumbent is (shadow) cabinet member	0.107 (0.078)	0.098 (0.078)
Constituency support for Brexit in 2014	-0.055 (0.097)	-0.059 (0.098)
East of England	0.05 (0.097)	0.045 (0.097)
London	0.198 (0.154)	0.154 (0.155)
North East	0.307 (0.223)	0.326 (0.226)
North West	0.354 (0.114)	0.355 (0.116)
Scotland	0.244 (0.312)	0.273 (0.303)
South East	0.099 (0.1)	0.087 (0.1)
South West	0.157 (0.103)	0.167 (0.103)
Wales	0.247 (0.144)	0.248 (0.142)
West Midlands	0.191 (0.113)	0.174 (0.112)
Yorkshire and the Humber	0.356 (0.113)	0.334 (0.114)
R propensity to vote Cons.	-0.091 (0.028)	-0.092 (0.028)
R propensity to vote Labour	-0.001 (0.026)	-0.001 (0.026)

TABLE S11. Unconditional multilevel logistic regression models of perception of MP Brexit stance, Conservative seats only, using Heppell scores. (cont.)

Term	No Heppell	With Heppell
R propensity to vote Lib Dem	-0.022 (0.021)	-0.022 (0.021)
R propensity to vote UKIP	-0.018 (0.035)	-0.018 (0.035)
R propensity to vote Green	0.026 (0.021)	0.027 (0.021)
R did not vote in 2016	-0.156 (0.224)	-0.162 (0.226)
R voted Leave in 2016	-0.136 (0.117)	-0.137 (0.118)
Incumbent campaigned to Remain in 2016	-0.637 (0.038)	-0.604 (0.042)
Incumbent undeclared in 2016	-0.412 (0.105)	-0.408 (0.105)
Congruence	0.077 (0.03)	0.077 (0.03)
Cons. share in 2015 by R did not vote in 2016	-0.088 (0.279)	-0.094 (0.278)
Cons. share in 2015 by R voted Leave in 2016	0.082 (0.13)	0.081 (0.13)
Lab. share in 2015 by R did not vote in 2016	0.048 (0.194)	0.046 (0.193)
Lab. share in 2015 by R voted Leave in 2016	0.207 (0.094)	0.207 (0.094)
UKIP share in 2015 by R did not vote in 2016	0.024 (0.118)	0.024 (0.118)
UKIP share in 2015 by R voted Leave in 2016	0.011 (0.061)	0.013 (0.061)
Pct. aged 18-24 by R did not vote in 2016	0.174 (0.125)	0.174 (0.126)
Pct. aged 18-24 by R voted Leave in 2016	0.012 (0.071)	0.013 (0.071)

MPs are minimally accountable for their issue stances

TABLE S11. Unconditional multilevel logistic regression models of perception of MP Brexit stance, Conservative seats only, using Heppell scores. (cont.)

Term	No Heppell	With Heppell
Pct. with L4+ quals by R did not vote in 2016	0.326 (0.269)	0.329 (0.271)
Pct. with L4+ quals by R voted Leave in 2016	0.062 (0.118)	0.063 (0.118)
Pct. nonwhite by R did not vote in 2016	-0.126 (0.163)	-0.13 (0.162)
Pct. nonwhite by R voted Leave in 2016	-0.098 (0.086)	-0.098 (0.088)
Pct. unemployed by R did not vote in 2016	0.071 (0.171)	0.07 (0.171)
Pct. unemployed by R voted Leave in 2016	0.033 (0.076)	0.034 (0.076)
Import shock by R did not vote in 2016	0.09 (0.08)	0.093 (0.081)
Import shock by R voted Leave in 2016	-0.007 (0.038)	-0.007 (0.038)
Three+ term incumbent by R did not vote in 2016	-0.057 (0.121)	-0.054 (0.12)
Three+ term incumbent by R voted Leave in 2016	0.002 (0.063)	0.002 (0.063)
Cabinet member by R did not vote in 2016	-0.031 (0.169)	-0.03 (0.167)
Cabinet member by R voted Leave in 2016	-0.122 (0.095)	-0.119 (0.095)
2014 support for Brexit by R did not vote in 2016	0.217 (0.233)	0.223 (0.234)
2014 support for Brexit by R voted Leave in 2016	0.037 (0.102)	0.036 (0.103)
East of England by R did not vote in 2016	0.184 (0.227)	0.187 (0.229)
London by R did not vote in 2016	0.076 (0.306)	0.085 (0.308)

TABLE S11. Unconditional multilevel logistic regression models of perception of MP Brexit stance, Conservative seats only, using Heppell scores. (cont.)

Term	No Heppell	With Heppell
North East by R did not vote in 2016	0.315 (0.528)	0.321 (0.536)
North West by R did not vote in 2016	0.075 (0.265)	0.077 (0.267)
Scotland by R did not vote in 2016	0.293 (0.765)	0.295 (0.767)
South East by R did not vote in 2016	0.043 (0.261)	0.05 (0.262)
South West by R did not vote in 2016	0.156 (0.237)	0.154 (0.239)
Wales by R did not vote in 2016	0.157 (0.406)	0.158 (0.409)
West Midlands by R did not vote in 2016	0.281 (0.216)	0.288 (0.217)
Yorks. by R did not vote in 2016	0.006 (0.323)	0.007 (0.321)
East of England by R voted Leave in 2016	0.045 (0.119)	0.048 (0.119)
London by R voted Leave in 2016	0.037 (0.186)	0.039 (0.188)
North East by R voted Leave in 2016	0.167 (0.28)	0.172 (0.283)
North West by R voted Leave in 2016	-0.12 (0.128)	-0.115 (0.131)
Scotland by R voted Leave in 2016	0.422 (0.386)	0.421 (0.381)
South East by R voted Leave in 2016	0.007 (0.117)	0.009 (0.118)
South West by R voted Leave in 2016	0.035 (0.12)	0.034 (0.121)
Wales by R voted Leave in 2016	0.24 (0.177)	0.238 (0.177)

MPs are minimally accountable for their issue stances

TABLE S12. Logistic regression models of incumbent retirement. Model (2) includes undeclared MPs with values of Congruence set to 50.

	(1)	(2)
(Intercept)	−9.971*	−9.971*
	(4.169)	(4.169)
Congruence	−0.010	
	(0.025)	
Congruence (alt.)		−0.010
		(0.025)
Age at referendum	0.037*	0.037*
	(0.016)	(0.016)
Campaigned for Remain in 2016	0.312	0.312
	(0.555)	(0.555)
Labour MP	5.149	5.149
	(4.369)	(4.369)
Vote share in 2015	0.076	0.076
	(0.050)	(0.050)
Leave share in constituency in 2016	0.025	0.025
	(0.037)	(0.037)
Labour MP by vote share in 2015	−0.073	−0.073
	(0.057)	(0.057)
Labour MP by Leave share	−0.014	−0.014
	(0.044)	(0.044)
Undeclared in 2016		−13.764
		(746.708)
AIC	267.796	269.796
BIC	306.569	313.058
Log Likelihood	−124.898	−124.898
Deviance	249.796	249.796
Num. obs.	549	559

*** $p < 0.001$; ** $p < 0.01$; * $p < 0.05$

TABLE S13. Multilevel regression of MPs' responses to survey vignettes. See text for description of models

	Baseline	No expressive Rs	No satisficers (1)	No satisficers (2)	Neither
Intercept	-0.693 (3.464)	-2.431 (2.856)	0.779 (2.923)	0.844 (2.986)	-1.716 (2.742)
Original share	0.770 (0.085)***	0.839 (0.070)***	0.814 (0.073)***	0.809 (0.075)***	0.855 (0.068)***
Congruence	0.140 (0.052)**	0.130 (0.042)**	0.098 (0.044)*	0.100 (0.045)*	0.112 (0.041)**
Remain to Leave switch	3.469 (1.043)***	3.298 (0.854)***	2.975 (0.895)***	2.913 (0.924)**	2.700 (0.839)**
AIC	4439.825	3779.442	4054.176	3848.817	3462.218
BIC	4465.930	3804.953	4080.057	3874.340	3487.273
Log Likelihood	-2213.912	-1883.721	-2021.088	-1918.409	-1725.109
Num. obs.	573	519	552	520	481
Num. groups: uuid	96	87	96	96	87
Var: uuid (Intercept)	69.588	50.850	30.298	34.019	40.805
Var: Residual	108.509	66.280	76.966	79.630	60.965

In these models, the baseline model includes all respondents. Model “no expressive Rs” excludes Remain-supporting respondents who estimated that the average gain for Leave to Remain switchers was more than ten percentage points higher than the average gain (loss) for Remain to Leave switchers, and similarly excluding Leave-supporting respondents who also estimated much higher gains for Remain to Leave switchers than vice versa. Model “no satisficers (1)” excludes estimated votes shares of 0 or 100 percent. Model “no satisficers (2)” additionally excludes estimated vote shares which were identical (to one decimal place) to the original vote share of the incumbent, as reported in the vignette. Model “neither” excludes expressive respondents and responses excluded in model “no satisficers (2)”.

TABLE S14. Multilevel regression of MPs' responses to survey vignettes, excluding one vignette at a time

	Baseline	No vignette 1	No vignette 2	No vignette 3	No vignette 4	No vignette 5	No vignette
Intercept	-0.693 (3.464)	-4.053 (3.322)	-0.267 (3.487)	-1.892 (3.709)	-3.758 (5.428)	-0.255 (3.635)	8.005 (8.62)
Original share	0.770 (0.085)***	1.037 (0.135)***	0.786 (0.087)***	0.623 (0.124)***	0.826 (0.111)***	0.758 (0.090)***	0.605 (0.174)
Congruence	0.140 (0.052)**	-0.075 (0.102)	0.133 (0.052)*	0.269 (0.094)**	0.153 (0.053)**	0.142 (0.054)**	0.115 (0.058)
Remain to Leave switch	3.469 (1.043)***	3.319 (0.904)***	2.546 (1.160)*	5.899 (1.806)**	3.569 (1.016)***	3.170 (1.142)**	5.833 (2.400)
AIC	4439.825	3614.789	3705.608	3750.923	3689.105	3743.396	3748.274
BIC	4465.930	3639.807	3730.613	3775.928	3714.135	3768.401	3773.279
Log Likelihood	-2213.912	-1801.395	-1846.804	-1869.461	-1838.553	-1865.698	-1868.137
Num. obs.	573	478	477	477	479	477	477
Num. groups: uuid	96	96	96	96	96	96	96
Var: uuid (Intercept)	69.588	83.199	57.963	68.838	62.702	67.215	74.201
Var: Residual	108.509	81.175	110.783	120.637	101.288	118.581	118.453

Note that although the coefficient on congruence is not significantly different from zero when excluding vignette 1, the difference between the coefficient in the baseline model, and the coefficient in the model excluding vignette 1, is not itself statistically significant.

FIGURE S1. Average marginal effect of a unit increase in perceived congruence upon incumbent voting. Full regression models are reported in Tables S7 - S9

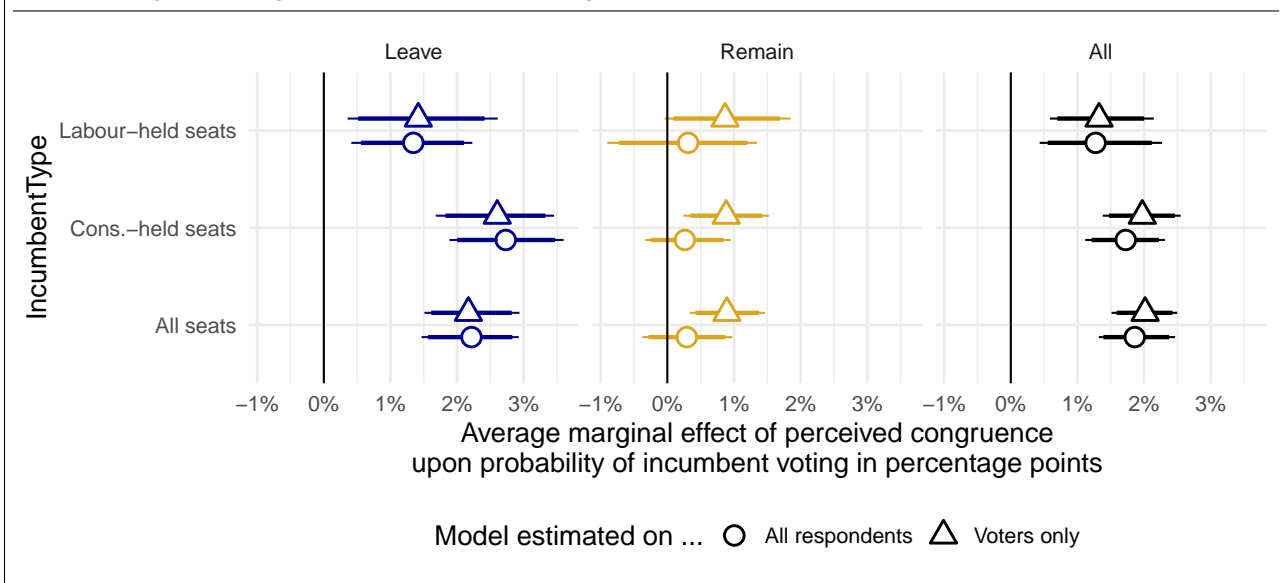


Figure S1 shows the effects of a *unit* change in perceived congruence. Perceived congruence is a variable with a range of four units and a standard deviation of 1.25 units. In order to make this estimate comparable to a change in a binary variable of one unit (or two standard deviations, given that the standard deviation of a dichotomous variable is ≈ 0.5), multiply the coefficient value by $2 \times 1.25 = 2.5$. The effect of a two standard deviation change in perceived congruence upon all voters is therefore around $2.50.0205 = 0.0513$ (95% CI = 0.037 to 0.066), or two times the effect of actual congruence.

STATEMENT ON MISSINGNESS

Our imputed data-set includes more variables that were used in the models of vote choice. In this section, we describe the variables featured in the multiple imputation, and their rates of missingness. We also describe the rationale for including these variables in the multiple imputation but not in the final model.

- **Propensity to vote variables, wave 7.** We include in our model of vote choice and in our imputation model respondents' propensity to vote for the five electorally relevant parties which compete nationwide: the Conservatives, Labour, the Liberal Democrats, the UK Independence Party, and the Green Party. For each of these parties the proportion of missing responses was 47% to two significant figures. Respondents were randomly allocated to see propensity to vote questions, and so this missingness is at random.
- **Propensity to vote variables, earlier waves.** We include in our imputation model (but not in our final model) respondents' propensity to vote for the five parties just mentioned, and also respondents' propensity to vote for the British National Party. The proportion of missing responses across waves was as follows: wave 1, 81%; wave 2, 80%; wave 3, 80%; wave 4, 77%; wave 5, 77%; wave 6, 76%.
- **Fixed respondent characteristics.** We include in our imputation model (but not in our final model) selected demographic characteristics of respondents: their age group, their gender, ethnicity, and their highest educational qualification. There were no missing values for gender, ethnicity, qualifications or age group. We include these variables in our imputation model but not our vote choice model because (a) these variables are useful in imputing weights (see below); and because (b) we believe these variables to matter for vote choice only through their effect on propensity to vote.
- **Constituency characteristics** We include a large range of constituency characteristics in our model. With one exception, there were no missing values. The sole exception was the value of import shock for four constituencies which saw minor boundary changes (Milton Keynes North; Milton Keynes South; Dumfriesshire, Clydesdale & Tweeddale; Edinburgh South)
- **Challenger position** 35% of values for this variable were missing. Relative to the baseline party (Conservative challengers), rates of missingness were significant for only two parties: the Liberal Democrats and the UK Independence Party. Since these parties had very strong Remain and Leave positions, we judge the risk of faulty inference due to inaccurate imputation to be minimal.

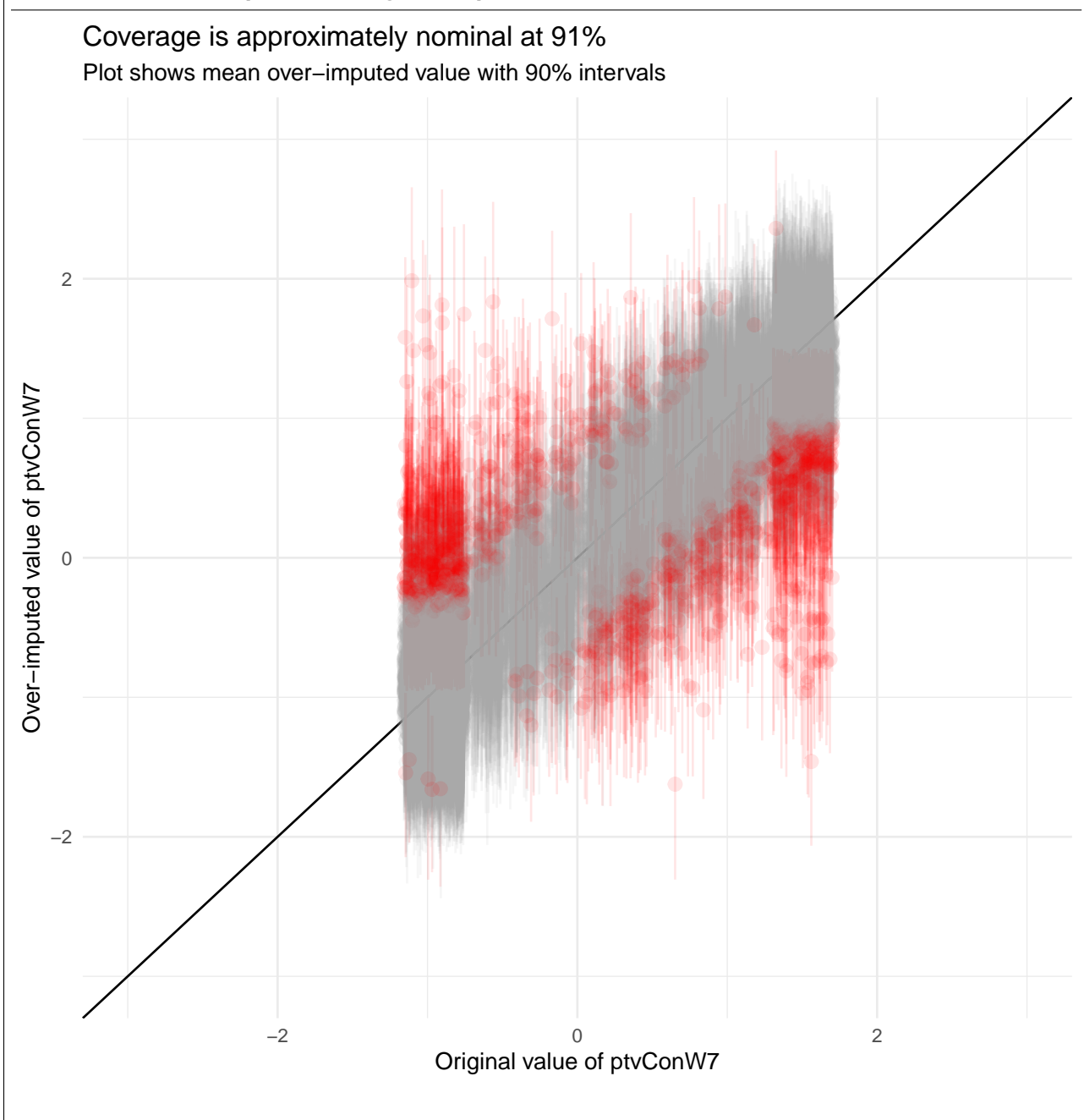
TABLE S15. Missingness of challenger position by challenger party

	Observed	Missing
Conservative and Unionist Party	87	68
Green Party	3	0
Labour Party	118	80
Liberal Democrats	42	12
Other	0	2
Plaid Cymru - The Party of Wales	3	2
Scottish National Party (SNP)	1	1
UK Independence Party (UKIP)	82	23

In order to diagnose our imputation, we over-impute one of our key control variables, the propensity

to vote Conservative in wave 7. By over-imputing and creating imputations for observed values, we can judge whether the imputed values are, in some sense, accurate. Figure S2 shows scaled values of variable 'ptvConW7' against 100 over-imputations (20 draws from an approximate normal distribution for each imputed data-set). Each plotted point is surrounded by a line showing the 90% prediction interval. Intervals which fail to encompass the observed value are shown in red. The solid line shows the ordinary least squares fit between the original and imputed values.

FIGURE S2. Over-imputation diagnostic plot



The plot shows that the imputed values are accurate and a good guide to the original values. The coverage of the imputed values is slightly better than nominal. Additionally, the OLS fit has a slope close to one and an intercept close to zero, indicating that the imputed values are not attenuated versions of the original values.

SURVEY OF MPS

Below we report the questions asked of the MPs in our survey:

Preface:

We would now like to ask you some hypothetical questions about Brexit and the 2017 election.

Please try and answer these questions setting aside your own views on Brexit.

Q1:

An estimated 62% of voters in Enfield Southgate voted to Remain in the 2016 referendum. The sitting MP, David Burrowes (Con.), campaigned for Leave in that referendum.

His main opponent, Bambos Charalambous (Lab.), supported Remain.

In the 2017 general election, Burrowes won 20,634 votes, or 42.7%, compared to Charalambous who won 51.7%.

Now suppose that Burrowes had campaigned for Remain instead.

How many votes would Burrowes have won had he switched to support Remain? Please give your answer as a percentage.

Q2:

An estimated 50% of voters in Colne Valley voted to Leave in the 2016 referendum. The sitting MP, Jason McCartney (Con.), campaigned for Leave in that referendum.

His main opponent, Thelma Walker (Lab.), supported Remain.

In the 2017 general election, McCartney won just under 28,000 votes, or 46.1%, compared to Walker who won 47.8%.

Now suppose that McCartney had campaigned for Remain instead.

How many votes would McCartney have won had he switched to support Remain? Please give your answer as a percentage.

Q3:

An estimated 61% of voters in Peterborough voted to Leave in the 2016 referendum. The sitting MP, Stewart Jackson (Con.), campaigned for Leave in that referendum.

His main opponent, Fiona Onasanya (Lab.), supported Remain.

In the 2017 general election, Jackson won 22,343 votes, or 46.8%, compared to Onasanya who won 48.1%.

Now suppose that Jackson had campaigned for Remain instead.

How many votes would Jackson have won had he switched to support Remain? Please give your answer as a percentage.

Q4:

An estimated 61% of voters in Leeds East voted to Leave in the 2016 referendum. The sitting MP, Richard Burgon (Lab.), campaigned for Remain in that referendum.

His main opponent, Matthew Robinson (Con.), supported Leave.

In the 2017 general election, Burgon won over 25,000 votes, or 61.4%, compared to Robinson who won 30.6%.

Now suppose that Burgon had campaigned for Leave instead.

How many votes would Burgon have won had he switched to support Leave? Please give your answer as a percentage.

Q5:

An estimated 50% of voters in Bromley and Chislehurst voted to Leave in the 2016 referendum. The sitting MP, Bob Neill (Con.), campaigned for Remain in that referendum.

His main opponent, Sara Hyde (Lab.), supported Remain.

In the 2017 general election, Neil won just over 25,000 votes, or 54%, compared to Hyde who won 33.4%.

Now suppose that Neill had campaigned for Leave instead.

How many votes would Neill have won had he switched to support Leave? Please give your answer as a percentage.

Q6:

An estimated 62% of voters in Reading East voted to Remain in the 2016 referendum. The sitting MP, Rob Wilson (Con.), campaigned for Remain in that referendum.

His main opponent, Matt Rodda (Lab.), supported Remain.

In the 2017 general election, Wilson won over 23,000 votes, or 42.3%, compared to Rodda who won 49%.

Now suppose that Wilson had campaigned for Leave instead.

How many votes would Wilson have won had he switched to support Leave? Please give your answer as a percentage.